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NAVAL TRAINING EQUIPMENT CENTER INDEX OF TECHNICAL REPORTS, (U)
SEP 82 R NELSON, E BOERUM
UNCLASSIFIED NAVTRADEV-P-3695 NL

NAVAL TRAINING EQUIPMENT CENTER ORLANDO FL F/G 5/9
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10-3
A
1190 2

3



10-3

3

10-3

AD A119819

12

NAVTRADEV P-3695

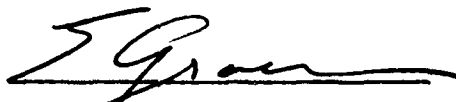
NAVAL TRAINING EQUIPMENT CENTER
INDEX OF TECHNICAL REPORTS

September 1982

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NAVAL TRAINING EQUIPMENT CENTER
ORLANDO, FLORIDA 32813

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

INTRODUCTION

1. CONTENTS OF THIS INDEX

This index lists published Naval Training Equipment Center (NAVTRAEQUIPCEN) technical reports and technical notes which are available through the Defense Technical Information Center (DTIC) and which have resulted from basic research, exploratory development and advanced development type projects.

2. ORGANIZATION OF THIS INDEX

So that publications may be located easily, this index is arranged as follows:

- a. By technical report/AD number (pages 1 - 32 (white))
- b. By AD/technical report number (pages 1 - 13/14 (green))
- c. By subject matter (pages 1 - 110 (yellow))
- d. Patents - in-house and contractor (1 - 33/34 (white))

3. INDEX UPDATE

This index will be updated annually. In the interim, it may be kept up-to-date through pen-and-ink changes, using the list of new technical reports published in the Training Systems Bulletin (P-1550 series).

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UNCLASSIFIED

REPORT NUMBER INDEX

2-55900/1R-2873
AD- 901 026

2F55-15F
AD- 289 152

5 11 1
AD- 211 710

20-A-10
AD- 839 030

30-856-2-VOL-2
AD-8057 316L

30-3067
AD-A091 912

46
AD- 127 496

54 5
AD- 050 314

56-17
AD- 125 485

71-179
AD-A951 020

76SRC55
AD-A053 179

93
AD- 230 996

241 6 2
AD- 110 963

244
AD- 056 736

383 7 2
AD- 237 656

558 1
AD- 243 372

773-88-WC
AD- 856 444L

799
AD- 871 547

1171/76-11
AD- 066 222L

1339 28 2
AD- 150 818

1701
AD- 729 029

3591-8-T
AD- 424 149

3591-13-T
AD- 419 960

3591-17-T
AD- 419 861

3591-19-F
AD- 419 929

3805
AD- 069 890

4130-11
AD- 518 463L

5581-0005
AD-A069 036

7380-F
AD- 676 313

7596-C
AD- 678 651

7851-0007AB
AD-A096 864

8266-114
AD- 747 699

8581-0005AB
AD-A095 730

8641-A00A
AD-A106 999

8641-A004
AD-A107 001

8641-A006
AD-A107 000

8641-A008
AD-A114 318

8641-A009
AD-A113 209

10077
AD- 517 522L

12126-FR1-VOL-1
AD- 724 778

12126-FR1-VOL-2
AD- 724 790

12244-FR1
AD- 736 970

12274-FR
AD- 733 964

12514-FR1
AD- 503 679

AA 948 254
AD- 055 422L

AFHRL-TR-78-46
AD-A056 720

AFHRL-TR-79-3
AD-A077 429

AFHRL-TR-80-10
AD-A087 012

AISR/375
AD-A023 546

AISR/376
AD-A048 498

ARA-9G28-F
AD- 838 041

REPORT NUMBER INDEX-1
UNCLASSIFIED FQP40C

UNCLASSIFIED

AS-102-3
AD- 766 466

AS-TR-102-4
AD- 766 507

AS-TR-164-1
AD-A009 805

AWAVS-1
AD-A037 223

AWAVS-7
AD-A046 699

BBN-1979
AD- 726 432

BBN-3220
AD-A023 594

BBN-3448
AD-A037 536

BIORAD-102-1
AD- 675 803

C70-310/301
AD- 737 658

CHANGE PAGE NOTICE NO. 5
AD- 413 883

CWS-01-78
AD A064 332

CWS-01-80
AD-A095 633

CWS-01-82
AD-A108 499

DAC-69-129
AD- 512 675
AD- 885 751

DEL-1031
AD- 870 828

DOD/DF-81/002
AD-A093 689

EA-74-5
AD-A002 704

ER-1108
AD- 879 712

FIRL-F-C4270-01
AD-A024 732

FR-5685
AD-A950 828

GER-10017
AD- 274 175

GER-14448
AD- 870 195

GER-14449
AD- 871 261

GER-14450
AD- 511 956

GER-16
AD- 061 687

GIDEP-817.20.00.00-1L-01
AD-B025 046L

GIDEP-E068-2681
AD-B025 046L

H810002
AD- 756 219

HUMRRO-D4-74-12
AD-A024 903

HUMRRO-FR-ED-77-25
AD-A055 788

IBM-FSD-ESC-73-535-004
AD- 774 932

IBM-FSD-ESC-73-535-005
AD- 774 931

IITRI-J6178-FR
AD- 881 530

IITRI-J6339
AD-A035 999

ITTFL-TD-67-21
AD- 917 883

J93-1U1
AD- 732 795

K0042-2U44
AD- 908 034

LR-859
AD-A064 390
AD-B036 403L

LR-859-SUPP
AD-B036 404L

LR-895-VOL-1
AD-A091 422

LR-895-VOL-2
AD-A091 423

LR-895-VOL-3
AD-A091 424

LR-895-VOL-4
AD-A091 425

LR-895-VOL-5
AD-A091 426

LR-895-VOL-6
AD-A091 427

LR-895-VOL-7
AD-A091 428

MR-16
AD- 483 664

N81339-1053
AD- 291 468

NACTRAEQUIPC-IH-238
AD-A002 258

NAVEXOS-P-459
AD- 639 366

REPORT NUMBER INDEX-2
UNCLASSIFIED FQP40C

AS--NAV

UNCLASSIFIED

NAVEXOS-P530 2S1R5
AD- 413 883

NAVEXOS-P-643
AD- 080 917

NAVEXOS-P-850-2
AD- 842 396

NAVEXOS-P-1104
AD- 839 496

NAVEXOS-P-1543
AD- 114 851

NAVEXOS-P-1544
AD- 119 109

NAVEXOS-P5302-S1-R4
AD- 408 881

NAVMED-X-851
AD- 839 026

NAVTRADEV-P-3695
AD- 917 494L
AD-A086 783

NAVTRADEVCM
AD- 283 884

NAVTRADEVCM-5-11-1
AD- 211 710

NAVTRADEVCM-9-11-1
AD- 214 729

NAVTRADEVCM-9U96-2
AD- 438 273

NAVTRADEVCM-20-OS-3-1
AD- 212 031

NAVTRADEVCM-20-OS-21
AD- 207 858

NAVTRADEVCM-20-OS-23-1
AD- 159 827

NAVTRADEVCM-20-OS-23-2
AD- 202 886

NAVTRADEVCM-20-OS-23-4
AD- 207 857

NAVTRADEVCM-20-OS-31-1
AD- 207 858

NAVTRADEVCM-20-OS-52
AD- 220 477

NAVTRADEVCM-20-RM-1-1M
AD- 205 880

NAVTRADEVCM-0044-4
AD- 917 883

NAVTRADEVCM-58-2-4
AD- 629 759

NAVTRADEVCM-66-C-0019-1
AD- 880 048

NAVTRADEVCM-66-C-0020-7
AD-A950 828

NAVTRADEVCM-66-C-0031-1
AD- 838 041

NAVTRADEVCM-66-C-0043-1
AD- 850 850

NAVTRADEVCM-66-C-0045-1
AD- 882 498

NAVTRADEVCM-66-C-0064-1
AD- 873 980

NAVTRADEVCM-66-C-0064-2
AD- 873 981

NAVTRADEVCM-66-C-0077-1
AD- 853 872

NAVTRADEVCM-66-C-0089-1
AD- 394 449L

NAVTRADEVCM-66-C-0113-1
AD- 512 875

NAVTRADEVCM-66-C-0113-2
AD- 885 751

NAVTRADEVCM-66-C-0147-1
AD- 737 858

NAVTRADEVCM-67-C-0034-1
AD- 875 825

NAVTRADEVCM-67-C-0034-2
AD- 875 805

NAVTRADEVCM-67-C-0034-3
AD- 875 806

NAVTRADEVCM-67-C-0095-1
AD- 875 503

NAVTRADEVCM-67-C-0096-1
AD- 875 803

NAVTRADEVCM-67-C-0105-1
AD- 737 859

NAVTRADEVCM-67-C-0114-1
AD- 671 842

NAVTRADEVCM-67-C-0114-2
AD- 674 428

NAVTRADEVCM-67-C-0185-1
AD- 859 345

NAVTRADEVCM-67-C-0165-2
AD- 857 295

NAVTRADEVCM-67-C-0196-7-
AD- 891 391L
AD- 891 483L

NAVTRADEVCM-67-C-0201-1
AD- 877 478

NAVTRADEVCM-67-C-0202-1
AD- 878 313

NAVTRADEVCM-68-C-0007-1
AD- 880 341

NAVTRADEVCM-68-C-0013-1
AD- 849 367

NAVTRADEVCM-68-C-0037-1
AD- 395 327L

REPORT NUMBER INDEX-3
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRADEVCE-68-C-0050-1
AD- 870 195

NAVTRADEVCE-68-C-0050-2
AD- 871 281

NAVTRADEVCE-68-C-0050-3
AD- 511 958

NAVTRADEVCE-68-C-0071-1
AD- 697 980

NAVTRADEVCE-68-C-0071-2
AD- 725 466

NAVTRADEVCE-68-C-0071-3
AD- 728 429

NAVTRADEVCE-68-C-0106-1
AD- 675 506

NAVTRADEVCE-68-C-0107-1
AD- 675 505

NAVTRADEVCE-68-C-0107-2
AD- 678 651

NAVTRADEVCE-68-C-0108-1
AD- 673 982

NAVTRADEVCE-68-C-0108-2
AD- 678 409

NAVTRADEVCE-68-C-0136-1
AD- 678 536

NAVTRADEVCE-68-C-0152-1
AD- 712 773

NAVTRADEVCE-68-C-0152-2
AD- 712 774

NAVTRADEVCE-68-C-0153-1
AD- 864 382

NAVTRADEVCE-68-C-0155-1
AD- 740 321

NAVTRADEVCE-68-C-0155-2
AD- 740 409

NAVTRADEVCE-68-C-0155-3
AD- 740 322

NAVTRADEVCE-68-C-0155-4
AD- 740 785

NAVTRADEVCE-68-C-0212-1
AD- 872 267

NAVTRADEVCE-68-C-0215-1-
AD- 724 778
AD- 724 790

NAVTRADEVCE-68-C-0242-1
AD- 871 984

NAVTRADEVCE-68-C-0271-1
AD- 871 612

NAVTRADEVCE-68-C-0308-1
AD- 856 444L

NAVTRADEVCE-68-C-0314-2
AD- 503 441L

NAVTRADEVCE-69-1
AD- 130 703

NAVTRADEVCE-69-2
AD- 490 890

NAVTRADEVCE-69-3
AD- 205 253

NAVTRADEVCE-69-4
AD- 302 866

NAVTRADEVCE-69-5
AD- 303 120

NAVTRADEVCE-69-6
AD- 303 119

NAVTRADEVCE-69-7
AD- 205 252

NAVTRADEVCE-69-C-0086-1
AD- 740 410

NAVTRADEVCE-69-C-0086-2
AD- 740 411

NAVTRADEVCE-69-C-0116-1
AD- 726 427

NAVTRADEVCE-69-C-0117-1
AD- 878 836

NAVTRADEVCE-69-C-0132-1
AD- 867 070

NAVTRADEVCE-69-C-0140-1-
AD- 516 714
AD- 726 428

NAVTRADEVCE-69-C-0151-1
AD- 872 854

NAVTRADEVCE-69-C-0152-1
AD- 871 547

NAVTRADEVCE-69-C-0156-1
AD- 736 621

NAVTRADEVCE-69-C-0176-1
AD- 870 828

NAVTRADEVCE-69-C-0179-1
AD- 869 900

NAVTRADEVCE-69-C-0181-1
AD- 881 530

NAVTRADEVCE-69-C-0186-1
AD- 881 976

NAVTRADEVCE-69-C-0192-1
AD- 874 278

NAVTRADEVCE-69-C-0207-1
AD-A011 377

NAVTRADEVCE-69-C-0215-1
AD- 894 317L

NAVTRADEVCE-69-C-0215-2
AD- 894 318L

NAVTRADEVCE-69-C-0215-3
AD- 894 319L

NAVTRADEVCE-69-C-0253-1
AD- 733 964

REPORT NUMBER INDEX-4
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRADEVCE-69-C-0260-14
AD- 747 699

NAVTRADEVCE-69-C-0268-1
AD- 729 029

NAVTRADEVCE-69-C-0269-4
AD- 878 773

NAVTRADEVCE-69-C-0278-1
AD- 722 423

NAVTRADEVCE-69-C-0298-1
AD- 734 644

NAVTRADEVCE-69-C-0301-1
AD- 880 414

NAVTRADEVCE-69-C-0304-1
AD- 726 430

NAVTRADEVCE-69-C-0310-1
AD- 518 463L

NAVTRADEVCE-69-C-0322-1
AD- 879 712

NAVTRADEVCE-69-C-0322-2
AD- 732 795

NAVTRADEVCE-70-C-0025-1
AD- 881 072

NAVTRADEVCE-70-C-0048-1
AD- 728 432

NAVTRADEVCE-70-C-0059-1
AD- 727 739

NAVTRADEVCE-70-C-0132-1
AD- 738 932

NAVTRADEVCE-70-C-0189-1
AD- 733 962

NAVTRADEVCE-70-C-0249-1
AD- 733 963

NAVTRADEVCE-70-C-0262-2
AD- 740 788

NAVTRADEVCE-70-C-0309-1
AD- 733 471

NAVTRADEVCE-70-C-0310-1
AD- 738 970

NAVTRADEVCE-70-C-0312-1
AD- 738 238

NAVTRADEVCE-71-16-16
AD- 149 547

NAVTRADEVCE-71-16-17
AD- 209 185

NAVTRADEVCE-71-16-18
AD- 637 570

NAVTRADEVCE-74-1
AD- 231 477

NAVTRADEVCE-76-1
AD- 378 903

NAVTRADEVCE-76-2
AD- 159 629

NAVTRADEVCE-76-3
AD- 301 768

NAVTRADEVCE-78-1
AD- 638 330

NAVTRADEVCE-78-2
AD- 237 913

NAVTRADEVCE-90-1
AD- 291 762

NAVTRADEVCE-104-2-44
AD- 127 496

NAVTRADEVCE-104-2-45
AD- 095 052

NAVTRADEVCE-104-2-48
AD- 639 108

NAVTRADEVCE-104-2-49
AD- 125 185

NAVTRADEVCE-104-2-50
AD- 639 107

NAVTRADEVCE-104-2-51
AD- 143 738

NAVTRADEVCE-104-2-52
AD- 202 401

NAVTRADEVCE-115-1
AD- 289 152

NAVTRADEVCE-128-2
AD- 302 263

NAVTRADEVCE-151-1-15
AD- 639 363

NAVTRADEVCE-151-1-16
AD- 639 029

NAVTRADEVCE-166-1-29
AD- 639 385

NAVTRADEVCE-190-54-1
AD- 240 664

NAVTRADEVCE-198-1
AD- 315 350

NAVTRADEVCE-198-2
AD- 247 147

NAVTRADEVCE-198-3
AD- 267 660

NAVTRADEVCE-269-7-80
AD- 105 928

NAVTRADEVCE-269-7-81
AD- 114 651

NAVTRADEVCE-294-1
AD- 641 321

NAVTRADEVCE-294-2
AD- 641 320

NAVTRADEVCE-294-3
AD- 259 513

REPORT NUMBER INDEX-5
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRADEVCE-294-5
AD- 602 283

NAVTRADEVCE-297-1
AD- 242 580

NAVTRADEVCE-297-2
AD- 259 505

NAVTRADEVCE-297-3
AD- 264 377

NAVTRADEVCE-306-1
AD- 313 496

NAVTRADEVCE-316-1
AD- 238 775

NAVTRADEVCE-316-2
AD- 256 346

NAVTRADEVCE-318-1
AD- 228 942

NAVTRADEVCE-318-2
AD- 323 180

NAVTRADEVCE-318-4
AD- 262 667

NAVTRADEVCE-318-5
AD- 484 396

NAVTRADEVCE-322-1-1
AD- 141 959

NAVTRADEVCE-323-1
AD- 410 805

NAVTRADEVCE-323-2
AD- 414 666

NAVTRADEVCE-330-1
AD- 241 901

NAVTRADEVCE-336-1
AD- 305 428

NAVTRADEVCE-342-3
AD- 262 937

NAVTRADEVCE-342-4
AD- 268 337

NAVTRADEVCE-342-6
AD- 378 180

NAVTRADEVCE-348-1
AD- 238 776

NAVTRADEVCE-348-2
AD- 248 419

NAVTRADEVCE-364-1
AD- 242 697

NAVTRADEVCE-373-1
AD- 243 219

NAVTRADEVCE-381-1
AD- 314 013

NAVTRADEVCE-404-VOL-1
AD- 227 192

NAVTRADEVCE-404-VOL-2
AD- 227 193

NAVTRADEVCE-439-2
AD- 628 749

NAVTRADEVCE-458-1
AD- 230 996
AD- 410 239

NAVTRADEVCE-495-8-1
AD- 642 596

NAVTRADEVCE-502-1
AD- 256 884
AD- 265 884

NAVTRADEVCE-506-1
AD- 292 120

NAVTRADEVCE-507-1
AD- 238 777

NAVTRADEVCE-507-2
AD- 241 283

NAVTRADEVCE-507-3

AD- 262 779

NAVTRADEVCE-508-1
AD- 230 997

NAVTRADEVCE-508-2
AD- 230 998

NAVTRADEVCE-508-3
AD- 230 999

NAVTRADEVCE-508-4
AD- 231 000

NAVTRADEVCE-511-1
AD- 634 542

NAVTRADEVCE-512-1
AD- 251 450

NAVTRADEVCE-520-1
AD- 287 905

NAVTRADEVCE-531-1
AD- 673 536

NAVTRADEVCE-558-1
AD- 243 372

NAVTRADEVCE-558-2
AD- 281 343

NAVTRADEVCE-560-1
AD- 259 512

NAVTRADEVCE-562-1
AD- 431 545

NAVTRADEVCE-565-1
AD- 253 068

NAVTRADEVCE-565-2
AD- 283 105

NAVTRADEVCE-565-3
AD- 284 679

NAVTRADEVCE-588-1
AD- 259 187

NAVTRADEVCE-588-2

REPORT NUMBER INDEX-8
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 283 848	AD- 856 964	AD- 279 206
NAVTRADEVCE-594-1	NAVTRADEVCE-783-1	NAVTRADEVCE-836-2
AD- 275 649	AD- 407 440	AD- 297 378
NAVTRADEVCE-598-1	NAVTRADEVCE-784-1	NAVTRADEVCE-838-2
AD- 840 274	AD- 264 364	AD- 401 748
NAVTRADEVCE-602-11-1	NAVTRADEVCE-784-2	NAVTRADEVCE-880-1
AD- 212 519	AD- 264 381	AD- 256 342
NAVTRADEVCE-656-1	NAVTRADEVCE-784-3	NAVTRADEVCE-915-00-2
AD- 612 278	AD- 264 568	AD- 142 877
NAVTRADEVCE-661-1	NAVTRADEVCE-786-2	NAVTRADEVCE-932-1
AD- 259 994	AD- 431 026	AD- 350 574
NAVTRADEVCE-663 1	NAVTRADEVCE-789-1	NAVTRADEVCE-950-1
AD- 320 307	AD- 277 188	AD- 275 921
NAVTRADEVCE-668-9-1	NAVTRADEVCE-789-2	NAVTRADEVCE-950-2
AD- 113 742	AD- 602 079	AD- 277 817
NAVTRADEVCE-668-9-2	NAVTRADEVCE-789-3	NAVTRADEVCE-955-1
AD- 113 744	AD- 447 882	AD- 401 583
NAVTRADEVCE-695-1-VOL-1	NAVTRADEVCE-789-11-1	NAVTRADEVCE-1000-1
AD- 621 711	AD- 225 517	AD- 291 788
NAVTRADEVCE-695-1-VOL-2	NAVTRADEVCE-790	NAVTRADEVCE-1025-1
AD- 623 815	AD- 259 993	AD- 276 896
NAVTRADEVCE-695-2-VOL-1	NAVTRADEVCE-797-1	NAVTRADEVCE-1025-2
AD- 673 444	AD- 259 992	AD- 424 625
NAVTRADEVCE-695-2-VOL-2	NAVTRADEVCE-801	NAVTRADEVCE-1025-3
AD- 673 445	AD- 283 911	AD- 800 240
NAVTRADEVCE-707-1	NAVTRADEVCE-822-1	NAVTRADEVCE-1025-4
AD- 317 363	AD- 424 149	AD- 740 136
NAVTRADEVCE-748-1	NAVTRADEVCE-822-2	NAVTRADEVCE-1053-1
AD- 266 704	AD- 419 960	AD- 291 488
NAVTRADEVCE-753-1	NAVTRADEVCE-822-3	NAVTRADEVCE-1084-1
AD- 517 522L	AD- 419 861	AD- 297 812
NAVTRADEVCE-772	NAVTRADEVCE-822-4	NAVTRADEVCE-1086-1
AD- 274 175	AD- 419 929	AD- 484 614
NAVTRADEVCE-779-1	NAVTRADEVCE-836-1	NAVTRADEVCE-1086-2

REPORT NUMBER INDEX-7
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 464 496	AD- 615 452	AD- 603 546
NAVTRADEVCE-1089-1	NAVTRADEVCE-1205-8	NAVTRADEVCE-1311-1
AD- 439 418	AD- 667 264	AD- 619 164
NAVTRADEVCE-1097-1	NAVTRADEVCE-1208-1	NAVTRADEVCE-1316-1
AD- 442 643	AD- 607 782	AD- 343 975
NAVTRADEVCE-1103-1	NAVTRADEVCE-1212-1	NAVTRADEVCE-1316-3
AD- 432 028	AD- 619 283	AD- 345 673
NAVTRADEVCE-1105-1	NAVTRADEVCE-1212-2	NAVTRADEVCE-1316-4
AD- 446 397	AD- 835 746	AD- 348 981
NAVTRADEVCE-1114-1	NAVTRADEVCE-1215-1	NAVTRADEVCE-1316-5
AD- 333 307	AD- 607 740	AD- 348 987
NAVTRADEVCE-1119-1	NAVTRADEVCE-1218-1	NAVTRADEVCE-1316-8
AD- 849 175	AD- 445 869	AD- 349 778L
NAVTRADEVCE-1146-1	NAVTRADEVCE-1218-2	NAVTRADEVCE-1318-7
AD- 297 838	AD- 445 870	AD- 350 847
NAVTRADEVCE-1169-1	NAVTRADEVCE-1218-3	NAVTRADEVCE-1320-1
AD- 434 816	AD- 445 871	AD- 603 329
NAVTRADEVCE-1169-2	NAVTRADEVCE-1218-4	NAVTRADEVCE-1326-1-VOL-1
AD- 436 258	AD- 472 155	AD- 367 643
NAVTRADEVCE-1182-5	NAVTRADEVCE-1218-5	NAVTRADEVCE-1326-1-VOL-4
AD- 607 741	AD- 475 879	AD- 367 647
NAVTRADEVCE-1188-1	NAVTRADEVCE-1231-1	NAVTRADEVCE-1326-VOL-3
AD- 405 853	AD- 438 924	AD- 367 646
NAVTRADEVCE-1205-1	NAVTRADEVCE-1247-8	NAVTRADEVCE-1327-1
AD- 601 022	AD- 862 632	AD- 608 309
NAVTRADEVCE-1205-2	NAVTRADEVCE-1257-2-1	NAVTRADEVCE-1327-2
AD- 602 427	AD- 115 706	AD- 477 963
NAVTRADEVCE-1205-3-PT-1	NAVTRADEVCE-1297-1	NAVTRADEVCE-1327-3
AD- 607 737	AD- 615 907	AD- 485 836
NAVTRADEVCE-1205-3-PT-2	NAVTRADEVCE-1303-1	NAVTRADEVCE-1327-4
AD- 607 738	AD- 605 387	AD- 680 019
NAVTRADEVCE-1205-4	NAVTRADEVCE-1303-2	NAVTRADEVCE-1329-1
AD- 611 412	AD- 604 866	AD- 607 888
NAVTRADEVCE-1205-5	NAVTRADEVCE-1303-3	NAVTRADEVCE-1329-1-1

REPORT NUMBER INDEX-8
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 354 672	AD- 619 047	AD- 689 488
NAVTRADEVCE-1329-2	NAVTRADEVCE-1432-1	NAVTRADEVCE-1528-1
AD- 813 382	AD- 617 689	AD- 631 592
NAVTRADEVCE-1329-3	NAVTRADEVCE-1432-1-S1	NAVTRADEVCE-1528-6
AD- 842 370	AD- 618 756	AD- 235 882
NAVTRADEVCE-1329-4	NAVTRADEVCE-1438-4	NAVTRADEVCE-1537-1
AD- 875 911	AD- 669 671	AD- 623 135
NAVTRADEVCE-1339-28-1	NAVTRADEVCE-1438-9-REV-1	NAVTRADEVCE-1555-1
AD- 149 500	AD- 669 834	AD- 672 222
NAVTRADEVCE-1339-28-2	NAVTRADEVCE-1440-1	NAVTRADEVCE-1557-1
AD- 150 818	AD- 619 066	AD- 609 364
NAVTRADEVCE-1339-28-3	NAVTRADEVCE-1440-2	NAVTRADEVCE-1574-1
AD- 150 185	AD- 645 590	AD- 625 378
NAVTRADEVCE-1341-1	NAVTRADEVCE-1444-1	NAVTRADEVCE-1594-1
AD- 630 312	AD- 619 284	AD- 634 338
NAVTRADEVCE-1345-1	NAVTRADEVCE-1445-1	NAVTRADEVCE-1614-1
AD- 472 414	AD- 447 537	AD- 637 659
NAVTRADEVCE-1385-4	NAVTRADEVCE-1445-S1	NAVTRADEVCE-1628-1
AD- 500 059	AD- 354 390	AD- 233 882
NAVTRADEVCE-1385-6	NAVTRADEVCE-1449-1	NAVTRADEVCE-1628-2
AD- 364 168	AD- 609 605	AD- 227 558
NAVTRADEVCE-1388-1	NAVTRADEVCE-1450-1	NAVTRADEVCE-1628-3
AD- 471 806	AD- 625 129	AD- 235 880
NAVTRADEVCE-1388-2	NAVTRADEVCE-1450-2	NAVTRADEVCE-1628-4
AD- 646 023	AD- 625 828	AD- 235 881
NAVTRADEVCE-1395-1	NAVTRADEVCE-1491-2	NAVTRADEVCE-1628-5
AD- 610 572	AD- 630 278	AD- 233 912
NAVTRADEVCE-1407-1	NAVTRADEVCE-1494-1	NAVTRADEVCE-1628-7
AD- 627 099	AD- 649 815	AD- 235 074
NAVTRADEVCE-1407-2	NAVTRADEVCE-1495-1	NAVTRADEVCE-1628-8
AD- 368 968L	AD- 630 268	AD- 233 913
NAVTRADEVCE-1423-1	NAVTRADEVCE-1517-1	NAVTRADEVCE-1628-10
AD- 647 266	AD- 619 048	AD- 233 915
NAVTRADEVCE-1428-1	NAVTRADEVCE-1519-1	NAVTRADEVCE-1628-11

REPORT NUMBER INDEX-9
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 235 883	AD- 668 005	AD- 426 442
NAVTRADEVCE-1628-12	NAVTRADEVCE-1753-2	NAVTRADEVCE-1908-00-1
AD- 856 364	AD- 668 006	AD- 143 781
NAVTRADEVCE-1628-13	NAVTRADEVCE-1753-3	NAVTRADEVCE-1908-00-2
AD- 856 365	AD- 667 722	AD- 203 255
NAVTRADEVCE-1628-14	NAVTRADEVCE-1754-1	NAVTRADEVCE-1908-00-3
AD- 856 366	AD- 888 191L	AD- 239 251
NAVTRADEVCE-1628-15	NAVTRADEVCE-1757-1	NAVTRADEVCE-1908-00-4
AD- 857 476	AD- 381 442	AD- 248 260
NAVTRADEVCE-1628-16	NAVTRADEVCE-1767	NAVTRADEVCE-1915-00-1
AD- 435 547	AD- 636 848	AD- 125 465
NAVTRADEVCE-1630-1	NAVTRADEVCE-1813-1	NAVTRADEVCE-1915-00-3
AD- 649 458	AD- 486 430	AD- 142 674
NAVTRADEVCE-1630-2-1	NAVTRADEVCE-1813-2	NAVTRADEVCE-1927-00-1
AD- 649 331	AD- 377 630L	AD- 113 128
NAVTRADEVCE-1630-2-2	NAVTRADEVCE-1819-1	NAVTRADEVCE-1927-00-2-SU
AD- 649 332	AD- 684 866	AD- 656 635
NAVTRADEVCE-1630-2-3	NAVTRADEVCE-1822-1	NAVTRADEVCE-1939-0-1
AD- 649 311	AD- 503 679	AD- 300 870
NAVTRADEVCE-1630-3	NAVTRADEVCE-1823-1	NAVTRADEVCE-1939-0-2
AD- 649 365	AD- 655 107	AD- 300 891
NAVTRADEVCE-1638-1	NAVTRADEVCE-1824-1	NAVTRADEVCE-1939-0-3
AD- 637 200	AD- 662 407	AD- 300 868
NAVTRADEVCE-1638-2	NAVTRADEVCE-1860-1	NAVTRADEVCE-1939-0-4
AD- 642 322	AD- 824 425	AD- 643 830
NAVTRADEVCE-1648-00-1	NAVTRADEVCE-1861-1	NAVTRADEVCE-3143-1
AD- 115 482	AD- 812 815	AD- 601 352
NAVTRADEVCE-1651-1	NAVTRADEVCE-1867-1	NAVTRADEVCE-4119-1
AD- 479 782	AD- 634 917	AD- 630 260
NAVTRADEVCE-1734-00-1	NAVTRADEVCE-1888-1	NAVTRADEVCE-4717-1
AD- 643 498	AD- 655 837	AD- 657 367
NAVTRADEVCE-1743-1	NAVTRADEVCE-1894-3	NAVTRADEVCE-7591-R-1
AD- 640 423	AD- 529 337L	AD- 201 668
NAVTRADEVCE-1753-1	NAVTRADEVCE-1907-7315	NAVTRADEVCE-BULL-40-1A

REPORT NUMBER INDEX-10
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 674 430	AD- 624 531	AD- 647 132
NAVTRADEVCECEN-DS3	NAVTRADEVCECEN-IH-34	NAVTRADEVCECEN-IH-66
AD- 311 612	AD- 625 130	AD- 380 020L
NAVTRADEVCECEN-IH-1	NAVTRADEVCECEN-IH-37	NAVTRADEVCECEN-IH-67
AD- 284 977	AD- 623 385	AD- 651 854
NAVTRADEVCECEN-IH-2	NAVTRADEVCECEN-IH-40	NAVTRADEVCECEN-IH-70
AD- 447 975	AD- 626 468	AD- 818 660
NAVTRADEVCECEN-IH-7	NAVTRADEVCECEN-IH-41	NAVTRADEVCECEN-IH-71
AD- 602 516	AD- 631 405	AD- 655 619
NAVTRADEVCECEN-IH-11	NAVTRADEVCECEN-IH-42	NAVTRADEVCECEN-IH-72
AD- 625 525	AD- 628 449	AD- 657 896
NAVTRADEVCECEN-IH-12	NAVTRADEVCECEN-IH-44	NAVTRADEVCECEN-IH-74
AD- 447 252	AD- 635 772	AD- 653 867
NAVTRADEVCECEN-IH13	NAVTRADEVCECEN-IH-48	NAVTRADEVCECEN-IH-75
AD- 607 739	AD- 630 275	AD- 754 741
NAVTRADEVCECEN-IH-14	NAVTRADEVCECEN-IH-49	NAVTRADEVCECEN-IH-78
AD- 445 863	AD- 631 840	AD- 671 843
NAVTRADEVCECEN-IH15	NAVTRADEVCECEN-IH-52	NAVTRADEVCECEN-IH-79
AD- 607 718	AD- 634 221	AD-A950 901
NAVTRADEVCECEN-IH16	NAVTRADEVCECEN-IH-53	NAVTRADEVCECEN-IH-81
AD- 609 358	AD- 635 869	AD- 754 742
NAVTRADEVCECEN-IH-17	NAVTRADEVCECEN-IH-55	NAVTRADEVCECEN-IH-129
AD- 630 246	AD-A950 880	AD- 660 679
NAVTRADEVCECEN-IH-18	NAVTRADEVCECEN-IH-56	NAVTRADEVCECEN-IH-137
AD- 376 639	AD- 636 397	AD- 660 680
NAVTRADEVCECEN-IH-19	NAVTRADEVCECEN-IH-57	NAVTRADEVCECEN-IH-139
AD- 608 568	AD- 636 969	AD- 665 932
NAVTRADEVCECEN-IH-21	NAVTRADEVCECEN-IH-58	NAVTRADEVCECEN-IH-142
AD- 607 719	AD- 609 071	AD- 668 015
NAVTRADEVCECEN-IH-26	NAVTRADEVCECEN-IH-61	NAVTRADEVCECEN-IH-143
AD- 661 020	AD- 641 182	AD- 672 567
NAVTRADEVCECEN-IH-30	NAVTRADEVCECEN-IH-62	NAVTRADEVCECEN-IH-145
AD- 626 189	AD- 648 948	AD- 723 182
NAVTRADEVCECEN-IH-33	NAVTRADEVCECEN-IH-63	NAVTRADEVCECEN-IH-148

REPORT NUMBER INDEX-11
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 871 073
 NAVTRADEVCECEN-IH-150
 AD- 853 352
 NAVTRADEVCECEN-IH-151
 AD- 838 773
 NAVTRADEVCECEN-IH-153
 AD- 858 929
 NAVTRADEVCECEN-IH-154
 AD- 844 288
 NAVTRADEVCECEN-IH-158
 AD- 888 174
 NAVTRADEVCECEN-IH-180
 AD- 854 598
 NAVTRADEVCECEN-IH-181
 AD- 854 363
 NAVTRADEVCECEN-IH-182
 AD- 754 795
 NAVTRADEVCECEN-IH-185
 AD- 854 453L
 NAVTRADEVCECEN-IH-188
 AD- 894 485
 NAVTRADEVCECEN-IH-187
 AD- 864 994
 NAVTRADEVCECEN-IH-188
 AD- 880 957L
 NAVTRADEVCECEN-IH-189
 AD- 713 888
 NAVTRADEVCECEN-IH-170
 AD- 883 027
 NAVTRADEVCECEN-IH-172
 AD- 714 841
 NAVTRADEVCECEN-IH-173
 AD- 707 757
 NAVTRADEVCECEN-IH-175

AD- 869 851
 NAVTRADEVCECEN-IH-177
 AD- 880 445
 NAVTRADEVCECEN-IH-178
 AD- 712 096
 NAVTRADEVCECEN-IH-179
 AD- 873 014
 NAVTRADEVCECEN-IH-181
 AD- 721 088
 NAVTRADEVCECEN-IH-182
 AD- 714 487
 NAVTRADEVCECEN-IH-183
 AD- 751 023
 NAVTRADEVCECEN-IH-184
 AD- 732 463
 NAVTRADEVCECEN-IH-186
 AD- 723 562
 NAVTRADEVCECEN-IH-188
 AD- 738 197
 NAVTRADEVCECEN-IH-189
 AD- 742 084
 NAVTRADEVCECEN-IH-190
 AD- 738 198
 NAVTRADEVCECEN-IH-195
 AD- 731 739
 NAVTRADEVCECEN-IH-202
 AD- 741 248
 NAVTRADEVCECEN-IH-205
 AD- 743 091
 NAVTRADEVCECEN-IH-208
 AD- 737 226
 NAVTRADEVCECEN-IH-223
 AD- 735 487
 NAVTRADEVCECEN-IH-224

AD- 783 842
 NAVTRADEVCECEN-NAVEXOS-P-12
 AD- 241 828
 NAVTRADEVCECEN-NAVEXOS-P-1543
 AD- 839 034
 NAVTRADEVCECEN-NAVEXOS-P-1731
 AD- 383 587
 NAVTRADEVCECEN-P-23
 AD-A950 900
 NAVTRADEVCECEN-P-1430
 AD- 080 477
 NAVTRADEVCECEN-P-1491
 AD- 284 953
 NAVTRADEVCECEN-P-3283-1
 AD-A951 020
 NAVTRADEVCECEN-SDC-TR-71-18
 AD- 837 821
 NAVTRADEVCECEN-TN-3
 AD- 898 792
 NAVTRADEVCECEN-TN-8
 AD- 874 838
 NAVTRADEVCECEN-TN-10
 AD- 739 330
 NAVTRADEVCECEN-TN-11
 AD- 872 988
 NAVTRADEVCECEN-TN-13
 AD- 880 732
 NAVTRADEVCECEN-TN-18
 AD- 900 341
 NAVTRADEVCECEN-TN-17
 AD- 751 024
 NAVTRADEVCECEN-TN-20
 AD- 738 928
 NAVTRADEVCECEN-TN-24

REPORT NUMBER INDEX-12
 UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD- 738 809
 NAVTRADEVNEN-TN-29
 AD- 743 958
 NAVTRADEVNEN-TN-34
 AD- 742 792
 NAVTRADEVNEN-TN-70-C-0047
 AD- 901 026
 NAVTRADEVNEN-TR-68-C-0005
 AD- 690 804
 NAVTRADEVNEN-TR-759-1
 AD- 268 042
 NAVTRADEVNEN-TR-759-2
 AD- 267 685
 NAVTRAEEQUIP-IH-263
 AD-A021 514
 NAVTRAEEQUIPC-70-C-0218-1
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 NAVTRAEEQUIPC-70-C-0238-1
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 NAVTRAEEQUIPC-70-C-0258-1
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 NAVTRAEEQUIPC-70-C-0258-2
 AD- 908 034
 NAVTRAEEQUIPC-70-C-0306-1
 AD- 766 507
 NAVTRAEEQUIPC-70-C-0306-2
 AD- 766 466
 NAVTRAEEQUIPC-71-C-0031-1
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 NAVTRAEEQUIPC-71-C-0075-1
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 NAVTRAEEQUIPC-71-C-0194-1
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 NAVTRAEEQUIPC-71-C-0200-1

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 NAVTRAEEQUIPC-71-C-0205-1
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 NAVTRAEEQUIPC-71-C-0207-2
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 NAVTRAEEQUIPC-71-C-0219-1
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 NAVTRAEEQUIPC-72-C-0030-1
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 NAVTRAEEQUIPC-72-C-0053-1
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 AD- 922 929
 NAVTRAEEQUIPC-72C0053-1-VO
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 NAVTRAEEQUIPC-72-C-0209-1
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 NAVTRAEEQUIPC-72-C-0209-2
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 NAVTRAEEQUIPC-73-C-0065-1
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 NAVTRAEEQUIPC-73-C-0065-2
 AD-A002 705
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NAVTRAEEQUIPC-73-C-0128-1
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 NAVTRAEEQUIPC-73-C-0129-1
 AD-A014 213
 NAVTRAEEQUIPC-73-C-0133-1
 AD-A009 361
 NAVTRAEEQUIPC-73-C-0138-1
 AD-A015 699
 NAVTRAEEQUIPC-73-C-0145-3
 AD-A012 862
 NAVTRAEEQUIPC-73-C-0145-4
 AD-A012 858
 NAVTRAEEQUIPC-73-C-0156-E0
 AD-A038 796
 AD-A038 797
 AD-A038 798
 AD-A038 799
 NAVTRAEEQUIPC-73-C-0158-1
 AD-A002 704
 NAVTRAEEQUIPC-73-C-0187-2
 AD- 786 778
 NAVTRAEEQUIPC-74-C-0048-1
 AD-A033 327
 NAVTRAEEQUIPC-74-C-0048-2
 AD-A049 880
 NAVTRAEEQUIPC-74-C-0058-1
 AD-A024 903
 NAVTRAEEQUIPC-74-C-0063-1
 AD-A024 517
 NAVTRAEEQUIPC-74-C-0065-1
 AD-A009 365
 NAVTRAEEQUIPC-74-C-0067-1
 AD-A011 846
 NAVTRAEEQUIPC-74-C-0079-1
 AD-A028 836

REPORT NUMBER INDEX-13
 UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRAEQUIPC-74-C-0079-2
AD-A027 891

NAVTRAEQUIPC-74-C-0081-6
AD-A022 291

NAVTRAEQUIPC-74-C-0095-1
AD-A027 701

NAVTRAEQUIPC-74-C-0100-1
AD-A021 474

NAVTRAEQUIPC-74-C-0128-1
AD-A020 588

NAVTRAEQUIPC-74-C-0141-1
AD-A048 498

NAVTRAEQUIPC-74-C-0152-1
AD-A035 999

NAVTRAEQUIPC-75-C-0009
AD-A046 899

NAVTRAEQUIPC-75-C-0009-1
AD-A037 223

NAVTRAEQUIPC-75-C-0057-1
AD-A046 898

NAVTRAEQUIPC-75-C-0076-1
AD-A037 536

NAVTRAEQUIPC-75-C-0093-1
AD-A023 546

NAVTRAEQUIPC-75-C-0095-1
AD-A053 179

NAVTRAEQUIPC-75-C-0099-1
AD-A037 468

NAVTRAEQUIPC-75-C-0100-1
AD-A035 616

NAVTRAEQUIPC-75-C-0101-1
AD-A036 264

NAVTRAEQUIPC-75-C-0104-4
AD-A023 594

NAVTRAEQUIPC-75-C-0105-1
AD-A056 230

NAVTRAEQUIPC-75-C-0134-1
AD-A024 345

NAVTRAEQUIPC-76-C-0007-1
AD-A024 732

NAVTRAEQUIPC-76-C-0017-1
AD-A031 451

NAVTRAEQUIPC-76-C-0034-1
AD-A047 919

NAVTRAEQUIPC-76-C-0034-2
AD-A061 732

NAVTRAEQUIPC-76-C-0048-1
AD-A065 060
AD-A111 800

NAVTRAEQUIPC-76-C-0055-1
AD-A058 793

NAVTRAEQUIPC-76-C-0055-2
AD-A065 925

NAVTRAEQUIPC-76-C-0060-VO
AD-A102 276
AD-A102 277

NAVTRAEQUIPC-76-C-0096-1
AD-A065 573

NAVTRAEQUIPC-76-C-0116-2
AD-A092 267

NAVTRAEQUIPC-76-C-0116-3
AD-A092 477

NAVTRAEQUIPC-77-C-0005-1
AD-A060 028

NAVTRAEQUIPC-77-C-0009-1
AD-A055 788

NAVTRAEQUIPC-77-C-0018-1
AD-A061 245

NAVTRAEQUIPC-77-C-0046-00

AD-A064 390
AD-B036 403L
AD-B036 404L

NAVTRAEQUIPC-77-C-0065-1
AD-A064 332

NAVTRAEQUIPC-77-C-0069-1
AD-A069 177

NAVTRAEQUIPC-77-C-0081-1
AD-A061 098

NAVTRAEQUIPC-77-C-0096-1
AD-A058 231

NAVTRAEQUIPC-77-C-0107-1
AD-A072 030

NAVTRAEQUIPC-77-C-0109-1
AD-A064 339

NAVTRAEQUIPC-77-C-0162-1
AD-A069 058

NAVTRAEQUIPC-77--C-0162-2
AD-A069 036

NAVTRAEQUIPC-77-C-0162-3
AD-A067 190

NAVTRAEQUIPC-77-C-0162-4
AD-A091 930

NAVTRAEQUIPC-77-C-0162-5
AD-A091 846

NAVTRAEQUIPC-77-C-0162-6
AD-A092 718

NAVTRAEQUIPC-77-C-0166-2
AD-A107 002

NAVTRAEQUIPC-77-C-0169-1
AD-B024 629L

NAVTRAEQUIPC-77-C-0185-00
AD-A091 422
AD-A091 423
AD-A091 424
AD-A091 425

REPORT NUMBER INDEX-14
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

AD-A091 426	NAVTRAEQUIPC-78-C-0136-3	NAVTRAEQUIPC-80-C-135-450
AD-A091 427	AD-A107 003	AD-A097 742
AD-A091 428		
NAVTRAEQUIPC-77-D-0028-1	NAVTRAEQUIPC-78-C-0141-1	NAVTRAEQUIPC-80-D-0009-01
AD-A087 516	AD-A074 833	AD-A098 625
NAVTRAEQUIPC-77-M-0575	NAVTRAEQUIPC-78-C-0151-1	NAVTRAEQUIPC-1089-1-REV-1
AD-A052 631	AD-A095 730	AD- 760 309
NAVTRAEQUIPC-77-M-1058-1	NAVTRAEQUIPC-78-C-0157-1	NAVTRAEQUIPCEN-IH-192
AD-A048 796	AD-A080 735	AD- 907 481L
NAVTRAEQUIPC-78-C-0004-1	NAVTRAEQUIPC-78-C-0182-1	NAVTRAEQUIPCEN-IH-198
AD-A093 767	AD-A107 001	AD- 754 091
NAVTRAEQUIPC-78-C-0044-1	NAVTRAEQUIPC-78-C-0182-3	NAVTRAEQUIPCEN-IH-199
AD-A068 612	AD-A107 000	AD- 753 213
NAVTRAEQUIPC-78-C-0045-1	NAVTRAEQUIPC-78-C-0182-4	NAVTRAEQUIPCEN-IH-200
AD-A080 428	AD-A114 318	AD- 750 894
NAVTRAEQUIPC-78-C-0053-1	NAVTRAEQUIPC-78-C-0182-8	NAVTRAEQUIPCEN-IH-203
AD-A069 060	AD-A113 209	AD- 754 423
NAVTRAEQUIPC-78-C-0060-3	NAVTRAEQUIPC-78-C-0182-10	NAVTRAEQUIPCEN-IH-207
AD-A095 633	AD-A106 999	AD- 750 248
NAVTRAEQUIPC-78-C-0060-6	NAVTRAEQUIPC-79-C-0042-1	NAVTRAEQUIPCEN-IH-208
AD-A108 499	AD-A091 912	AD- 750 249
NAVTRAEQUIPC-78-C-0060-8	NAVTRAEQUIPC-79-C-0085-1	NAVTRAEQUIPCEN-IH-209
AD-A108 801	AD-A079 902	AD- 749 951
NAVTRAEQUIPC-78-C-0060-10	NAVTRAEQUIPC-79-C-0096-1	NAVTRAEQUIPCEN-IH-211
AD-A112 486	AD-A107 940	AD- 750 895
NAVTRAEQUIPC-78-C-0060-11	NAVTRAEQUIPC-79-C-0101-2	NAVTRAEQUIPCEN-IH-212
AD-A112 475	AD-A096 864	AD- 755 722
NAVTRAEQUIPC-78-C-0076-1	NAVTRAEQUIPC-79-D-0105-1	NAVTRAEQUIPCEN-IH-213
AD-A092 561	AD-A106 224	AD- 751 559
NAVTRAEQUIPC-78-C-0107-1	NAVTRAEQUIPC-80-C-0008-1	NAVTRAEQUIPCEN-IH-218
AD-A076 236	AD-A107 911	AD- 758 837
NAVTRAEQUIPC-78-C-0129-1	NAVTRAEQUIPC-80-C-0055-1	NAVTRAEQUIPCEN-IH-243
AD-A084 678	AD-A099 895	AD-A003 945
NAVTRAEQUIPC-78-C-0136-1	NAVTRAEQUIPC-80-C-0100-1-	NAVTRAEQUIPCEN-IH-250
AD-A107 342	AD-B057 316L	AD-A021 418

REPORT NUMBER INDEX-15
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRAEQUIPCEN-IH-287 AD-A049 973	NAVTRAEQUIPC-IH-216-S1 AD- 777 434	NAVTRAEQUIPC-IH-240 AD-A000 970
NAVTRAEQUIPCEN-IH-314 AD-A075 389	NAVTRAEQUIPC-IH-217 AD- 774 479	NAVTRAEQUIPC-IH-241 AD-A003 011
NAVTRAEQUIPCEN-TAEG-1 AD- 748 593	NAVTRAEQUIPC-IH-218 AD- 759 702	NAVTRAEQUIPC-IH-242 AD-A030 706
NAVTRAEQUIPCEN-TAEG-2 AD- 748 594	NAVTRAEQUIPC-IH-219 AD- 779 881	NAVTRAEQUIPC-IH-245 AD-A016 586
NAVTRAEQUIPCEN-TAEG-3 AD- 522 919L	NAVTRAEQUIPC-IH-220 AD- 910 397	NAVTRAEQUIPC-IH-246 AD-A012 944
NAVTRAEQUIPCEN-TN-8 AD- 758 638	NAVTRAEQUIPC-IH-222 AD- 768 734	NAVTRAEQUIPC-IH-248 AD-A028 385
NAVTRAEQUIPCEN-TN-25 AD- 750 250	NAVTRAEQUIPC-IH-226 AD- 768 756	NAVTRAEQUIPC-IH-249 AD-A032 576
NAVTRAEQUIPCEN-TN-26 AD- 751 560	NAVTRAEQUIPC-IH-227 AD- 770 819	NAVTRAEQUIPC-IH-251 AD-A040 288
NAVTRAEQUIPCEN-TN-35 AD- 904 984	NAVTRAEQUIPC-IH-229 AD-A011 819	NAVTRAEQUIPC-IH-252 AD-A019 233
NAVTRAEQUIPCEN-TN-36 AD- 754 097	NAVTRAEQUIPC-IH-230 AD- 779 256	NAVTRAEQUIPC-IH-253 AD-A020 625
NAVTRAEQUIPC-IH-158-SUPPL-1 AD- 761 181	NAVTRAEQUIPC-IH-231 AD-A027 096	NAVTRAEQUIPC-IH-254 AD-A026 281
NAVTRAEQUIPC-IH-158-SUPPL-2 AD-A025 179	NAVTRAEQUIPC-IH-233 AD- 780 419	NAVTRAEQUIPC-IH-255 AD-A017 216
NAVTRAEQUIPC-IH-158-SUPPL-3 AD-A069 057	NAVTRAEQUIPC-IH-234 AD- 780 420	NAVTRAEQUIPC-IH-257 AD-A024 526
NAVTRAEQUIPC-IH-187 AD- 758 004	NAVTRAEQUIPC-IH-235 AD- 781 887	NAVTRAEQUIPC-IH-258 AD-A021 888
NAVTRAEQUIPC-IH-196 AD- 758 363	NAVTRAEQUIPC-IH-236 AD- 780 421	NAVTRAEQUIPC-IH-259 AD-A032 455
NAVTRAEQUIPC-IH-197 AD-A013 597	NAVTRAEQUIPC-IH-237 AD-A002 706	NAVTRAEQUIPC-IH-260 AD-A032 771
NAVTRAEQUIPC-IH-215 AD- 778 552	NAVTRAEQUIPC-IH-239 AD-A001 276	NAVTRAEQUIPC-IH-261 AD-A024 836

REPORT NUMBER INDEX-16
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRAEQUIPC-IH-262 AD-A043 578	NAVTRAEQUIPC-IH-295 AD-A053 472	NAVTRAEQUIPC-IH-318 AD-A091 508
NAVTRAEQUIPC-IH-264 AD-A021 533	NAVTRAEQUIPC-IH-297 AD-A056 720	NAVTRAEQUIPC-IH-319 AD-A087 012
NAVTRAEQUIPC-IH-265 AD-A038 456	NAVTRAEQUIPC-IH-298 AD-A061 687	NAVTRAEQUIPC-IH-320 AD-A082 310
NAVTRAEQUIPC-IH-267 AD-A032 679	NAVTRAEQUIPC-IH-300 AD-A055 422	NAVTRAEQUIPC-IH-321 AD-A102 028
NAVTRAEQUIPC-IH-268 AD-A050 314	NAVTRAEQUIPC-IH-301 AD-A056 336	NAVTRAEQUIPC-IH-322 AD-A092 193
NAVTRAEQUIPC-IH-269 AD-A028 722	NAVTRAEQUIPC-IH-302 AD-A058 392	NAVTRAEQUIPC-IH-325 AD-A095 106
NAVTRAEQUIPC-IH-275 AD-A028 885	NAVTRAEQUIPC-IH-303 AD-A057 216	NAVTRAEQUIPC-IH-326 AD-A111 801
NAVTRAEQUIPC-IH-276 AD-A031 447	NAVTRAEQUIPC-IH-304 AD-A060 459	NAVTRAEQUIPC-IH-327 AD-A103 476
NAVTRAEQUIPC-IH-278 AD-A037 549	NAVTRAEQUIPC-IH-305 AD-A064 312	NAVTRAEQUIPC-IH-328 AD-A111 799
NAVTRAEQUIPC-IH-282 AD-A042 092	NAVTRAEQUIPC-IH-306 AD-A061 381	NAVTRAEQUIPC-IH-332 AD-A113 136
NAVTRAEQUIPC-IH-283 AD-A042 430	NAVTRAEQUIPC-IH-308 AD-A066 222	NAVTRAEQUIPC-IH-333 AD-A110 669
NAVTRAEQUIPC-IH-284 AD-A042 120	NAVTRAEQUIPC-IH-309 AD-A066 324	NAVTRAEQUIPC-TN-33 AD-A014 208
NAVTRAEQUIPC-IH-285 AD-A043 181	NAVTRAEQUIPC-IH-311 AD-A069 890	NAVTRAEQUIPC-TN-37 AD- 779 074
NAVTRAEQUIPC-IH-286 AD-A046 853	NAVTRAEQUIPC-IH-313 AD-A108 744	NAVTRAEQUIPC-TN-38 AD- 769 117
NAVTRAEQUIPC-IH-288 AD-B024 079L	NAVTRAEQUIPC-IH-315 AD-A077 429	NAVTRAEQUIPC-TN-39 AD- 785 248
NAVTRAEQUIPC-IH-293 AD-A047 920	NAVTRAEQUIPC-IH-316 AD-A077 656	NAVTRAEQUIPC-TN-40 AD- 782 508
NAVTRAEQUIPC-IH-294 AD-A047 905	NAVTRAEQUIPC-IH-317 AD-B053 204L	NAVTRAEQUIPC-TN-41 AD-A002 253

REPORT NUMBER INDEX-17
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

NAVTRAEQUIPC-TN-42
AD-A006 462

NAVTRAEQUIPC-TN-43
AD-A006 568

NAVTRAEQUIPC-TN-46
AD-B010 084L

NAVTRAEQUIPC-TN-47
AD-A031 281

NAVTRAEQUIPC-TN-50
AD-A026 747

NAVTRAEQUIPC-TN-51
AD-B016 448L

NAVTRAEQUIPC-TN-52
AD-A027 503

NAVTRAEQUIPC-TN-53
AD-B015 707

NAVTRAEQUIPC-TN-55
AD-A036 150

NAVTRAEQUIPC-TN-56
AD-A037 839

NAVTRAEQUIPC-TN-57
AD-B019 111L

NAVTRAEQUIPC-TN-60
AD-A070 780

NAVTRAEQUIPC-TR-81-014
AD-A111 392

NAVTRAEQUIPU-TN-44
AD- 781 886

NBS 4078
AD- 240 664

NESCO-SN-263
AD- 824 425

NMC-TP-71-29
AD-D508 762L

NRA-856-86-1
AD- 684 866

NRL-REPRINT-23-52
AD- 492 701

OR-11796
AD- 754 743

ORD 8C PR2
AD- (56 336

PFTR-1044-78-2
AD-A060 028

PFTR-1071-79-8
AD-A076 236

PRA-60-14
AD- 840 274

PRA-U68-1134
AD- 740 321

PRA-U69-1212
AD- 740 409

PRA-U69-1220
AD- 740 322

PRA-U69-1235
AD- 740 785

PRA-U70-1285
AD- 740 410

PRA-U70-1288
AD- 740 411

PRA-U71-1298
AD- 740 788

PSI-80-4
AD-A087 742

R-84
AD- 061 381

REVISION NO. 1
AD- 669 671

RTH-0180
AD-A092 561

SDC-269-7-36
AD- 045 501

SDR-113(AFT-I)FR
AD- 759 366

SDR-140
AD- 772 593

SID-65-1221
AD- 479 782

SPECDEVCEN-8U37A-1
AD- 051 713

SPECDEVCEN-17-1-1
AD- 639 033

SPECDEVCEN-20-A-22-1
AD- 140 210

SPECDEVCEN-20-F-2
AD- 493 684

SPECDEVCEN-20-L-4(1)
AD- 638 868

SPECDEVCEN-20-TV-2
AD- 090 161

SPECDEVCEN-20-TV-4
AD- 119 109

SPECDEVCEN-54-45
AD- 044 627

SPECDEVCEN-57-1-1
AD- 639 275

SPECDEVCEN-57-1-2
AD- 639 276

SPECDEVCEN-57-1-3
AD- 639 277

SPECDEVCEN-57-1-4
AD- 639 278

REPORT NUMBER INDEX-18
UNCLASSIFIED FQP40C

NAV-SPE

UNCLASSIFIED

SPECDEVGEN-57-1-5
AD- 639 279

SPECDEVGEN-57-2-1
AD- 639 281

SPECDEVGEN-57-2-2
AD- 639 282

SPECDEVGEN-57-2-3
AD- 639 283

SPECDEVGEN-57-2-4
AD- 639 284

SPECDEVGEN-57-2-5
AD- 639 285

SPECDEVGEN-57-2-6
AD- 639 291

SPECDEVGEN-57-2-7
AD- 639 292

SPECDEVGEN-57-2-8
AD- 639 293

SPECDEVGEN-57-2-9
AD- 639 294

SPECDEVGEN-57-2-10
AD- 160 447

SPECDEVGEN-57-2-11
AD- 639 256

SPECDEVGEN-57-2-12
AD- 639 361

SPECDEVGEN-57-2-13
AD- 639 304

SPECDEVGEN-57-2-14
AD- 639 305

SPECDEVGEN-58-1-1
AD- 639 035

SPECDEVGEN-58-1-2
AD- 657 485

SPECDEVGEN-58-1-3
AD- 639 036

SPECDEVGEN-58-1-4
AD- 639 037

SPECDEVGEN-58-1-5
AD- 639 038

SPECDEVGEN-58-1-6
AD- 639 039

SPECDEVGEN-58-2-1
AD- 639 040

SPECDEVGEN-58-2-2
AD- 139 610

SPECDEVGEN-58-2-5
AD- 639 041

SPECDEVGEN-58-2-6
AD- 654 264

SPECDEVGEN-58-2-7
AD- 639 042

SPECDEVGEN-58-2-8
AD- 639 043

SPECDEVGEN-58-2-9
AD- 639 044

SPECDEVGEN-58-2-11
AD- 639 045

SPECDEVGEN-58-3-1
AD- 639 046

SPECDEVGEN-71-16-1M
AD- 638 347

SPECDEVGEN-71-16-2
AD- 657 472

SPECDEVGEN-71-16-3
AD- 136 800

SPECDEVGEN-71-16-4
AD- 657 194

SPECDEVGEN-71-16-5A
AD- 639 031

SPECDEVGEN-71-16-6
AD- 657 470

SPECDEVGEN-71-16-7
AD- 657 473

SPECDEVGEN-71-16-9
AD- 025 297
AD- 639 032

SPECDEVGEN-71-16-10
AD- 637 538

SPECDEVGEN-71-16-11
AD- 121 200

SPECDEVGEN-71-16-13
AD- 112 279

SPECDEVGEN-71-16-14
AD- 090 614

SPECDEVGEN-71-16-15
AD- 070 889

SPECDEVGEN-71-43-1
AD- 109 263

SPECDEVGEN-104-2-1
AD- 657 467

SPECDEVGEN-104-2-2
AD- 657 465

SPECDEVGEN-104-2-3
AD- 657 469

SPECDEVGEN-104-2-4
AD- 638 355

SPECDEVGEN-104-2-6
AD- 638 353

SPECDEVGEN-104-2-7
AD- 657 468

SPECDEVGEN-104-2-8
AD- 654 585

REPORT NUMBER INDEX-19
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-104-2-9
AD- 638 351

SPECDEVCEN-104-2-10
AD- 638 350

SPECDEVCEN-104-2-11
AD- 658 831

SPECDEVCEN-104-2-12
AD- 639 818

SPECDEVCEN-104-2-13
AD- 639 085

SPECDEVCEN-104-2-14
AD- 658 830

SPECDEVCEN-104-2-15
AD- 639 084

SPECDEVCEN-104-2-16
AD- 639 086

SPECDEVCEN-104-2-17
AD- 111 557

SPECDEVCEN-104-2-18
AD- 639 087

SPECDEVCEN-104-2-19
AD- 647 402

SPECDEVCEN-104-2-20
AD- 639 088

SPECDEVCEN-104-2-21
AD- 639 089

SPECDEVCEN-104-2-22
AD- 647 139

SPECDEVCEN-104-2-23
AD- 639 090

SPECDEVCEN-104-2-24
AD- 639 094

SPECDEVCEN-104-2-25
AD- 639 095

SPECDEVCEN-104-2-26
AD- 639 096

SPECDEVCEN-104-2-27
AD- 045 502

SPECDEVCEN-104-2-28
AD- 045 389

SPECDEVCEN-104-2-29
AD- 045 390

SPECDEVCEN-104-2-30
AD- 639 097

SPECDEVCEN-104-2-31
AD- 639 098

SPECDEVCEN-104-2-32
AD- 042 981

SPECDEVCEN-104-2-33
AD- 045 503

SPECDEVCEN-104-2-34
AD- 045 504

SPECDEVCEN-104-2-35
AD- 042 860

SPECDEVCEN-104-2-36
AD- 639 099

SPECDEVCEN-104-2-37
AD- 221 573

SPECDEVCEN-104-2-38
AD- 639 103

SPECDEVCEN-104-2-39
AD- 639 104

SPECDEVCEN-104-2-40
AD- 109 246

SPECDEVCEN-104-2-41
AD- 075 348

SPECDEVCEN-104-2-42
AD- 078 538

SPECDEVCEN-104-2-43
AD- 109 245

SPECDEVCEN-104-2-46
AD- 127 495

SPECDEVCEN-104-2-47
AD- 639 105

SPECDEVCEN-106-9
AD- 073 740

SPECDEVCEN-106-10
AD- 074 028

SPECDEVCEN-106-21
AD- 038 713

SPECDEVCEN-131-1-1
AD- 639 142

SPECDEVCEN-131-1-2
AD- 639 143

SPECDEVCEN-131-1-3
AD- 140 735

SPECDEVCEN-131-1-4
AD- 639 144

SPECDEVCEN-131-1-5
AD- 639 496

SPECDEVCEN-131-1-8
AD- 657 402

SPECDEVCEN-151-1-1
AD- 639 028

SPECDEVCEN-151-1-2
AD- 639 027

SPECDEVCEN-151-1-3
AD- 660 030

SPECDEVCEN-151-1-4
AD- 642 737

SPECDEVCEN-151-1-5
AD- 642 735

REPORT NUMBER INDEX-20
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-151-1-6 AD- 642 736	SPECDEVCEN-166-1-4 AD- 639 370	SPECDEVCEN-166-1-21 AD- 044 181
SPECDEVCEN-151-1-7 AD- 642 734	SPECDEVCEN-166-1-5 AD- 639 380	SPECDEVCEN-166-1-22 AD- 144 672
SPECDEVCEN-151-1-8 AD- 639 028	SPECDEVCEN-166-1-6 AD- 639 371	SPECDEVCEN-166-1-23 AD- 639 381
SPECDEVCEN-151-1-9 AD- 642 801	SPECDEVCEN-166-1-7 AD- 639 374	SPECDEVCEN-166-1-24 AD- 062 804
SPECDEVCEN-151-1-10 AD- 639 055	SPECDEVCEN-166-1-8 AD- 639 369	SPECDEVCEN-166-1-25 AD- 639 383
SPECDEVCEN-151-1-11 AD- 657 449	SPECDEVCEN-166-1-9 AD- 639 375	SPECDEVCEN-166-1-26 AD- 639 384
SPECDEVCEN-151-1-12 AD- 135 631	SPECDEVCEN-166-1-10 AD- 072 813	SPECDEVCEN-166-1-27 AD- 639 379
SPECDEVCEN-151-1-13 AD- 657 481	SPECDEVCEN-166-1-11 AD- 639 296	SPECDEVCEN-166-1-28 AD- 657 478
SPECDEVCEN-151-1-14 AD- 642 798	SPECDEVCEN-166-1-12 AD- 639 295	SPECDEVCEN-166-1-30 AD- 639 367
SPECDEVCEN-151-1-17 AD- 657 482	SPECDEVCEN-166-1-13 AD- 639 682	SPECDEVCEN-166-1-31 AD- 657 518
SPECDEVCEN-151-1-18 AD- 764 033	SPECDEVCEN-166-1-14 AD- 639 681	SPECDEVCEN-166-1-32 AD- 639 390
SPECDEVCEN-166-00-1 AD- 639 306	SPECDEVCEN-166-1-15 AD- 821 792	SPECDEVCEN-166-1-33 AD- 639 364
SPECDEVCEN-166-00-2 AD- 639 362	SPECDEVCEN-166-1-16 AD- 043 979	SPECDEVCEN-166-1-34 AD- 046 732
SPECDEVCEN-166-00-3 AD- 128 719	SPECDEVCEN-166-1-17 AD- 639 376	SPECDEVCEN-166-1-35 AD- 657 515
SPECDEVCEN-166-1-1 AD- 657 477	SPECDEVCEN-166-1-18 AD- 639 686	SPECDEVCEN-166-1-36 AD- 639 286
SPECDEVCEN-166-1-2 AD- 639 368	SPECDEVCEN-166-1-19 AD- 639 366	SPECDEVCEN-166-1-37 AD- 639 287
SPECDEVCEN-166-1-3 AD- 127 071	SPECDEVCEN-166-1-20 AD- 639 394	SPECDEVCEN-166-1-38 AD- 639 290

REPORT NUMBER INDEX-21
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCCN-166-1-39
AD- 639 365

SPECDEVCCN-166-1-40
AD- 639 391

SPECDEVCCN-166-1-41
AD- 646 273

SPECDEVCCN-166-1-42
AD- 657 520

SPECDEVCCN-166-1-43
AD- 657 527

SPECDEVCCN-166-1-44
AD- 639 392

SPECDEVCCN-166-1-45
AD- 639 280

SPECDEVCCN-166-1-46
AD- 639 288

SPECDEVCCN-166-1-47
AD- 204 059

SPECDEVCCN-166-1-48
AD- 657 521

SPECDEVCCN-166-1-49
AD- 657 522

SPECDEVCCN-166-1-50
AD- 639 393

SPECDEVCCN-166-1-51
AD- 640 081

SPECDEVCCN-166-1-52
AD- 657 516

SPECDEVCCN-166-1-53
AD- 640 082

SPECDEVCCN-166-1-56
AD- 639 862

SPECDEVCCN-166-1-57
AD- 639 863

SPECDEVCCN-166-1-58
AD- 640 059

SPECDEVCCN-166-1-59
AD- 639 864

SPECDEVCCN-166-1-60
AD- 657 623

SPECDEVCCN-166-1-66
AD- 639 627

SPECDEVCCN-166-1-67
AD- 640 085

SPECDEVCCN-166-1-68
AD- 640 060

SPECDEVCCN-166-1-71
AD- 639 628

SPECDEVCCN-166-1-72
AD- 644 706

SPECDEVCCN-166-1-73
AD- 640 061

SPECDEVCCN-166-1-75
AD- 640 071

SPECDEVCCN-166-1-76
AD- 640 072

SPECDEVCCN-166-1-77
AD- 640 073

SPECDEVCCN-166-1-79
AD- 657 622

SPECDEVCCN-166-1-80
AD- 640 076

SPECDEVCCN-166-1-81
AD- 640 075

SPECDEVCCN-166-1-82
AD- 493 403

SPECDEVCCN-166-1-83
AD- 639 865

SPECDEVCCN-166-1-84
AD- 644 708

SPECDEVCCN-166-1-85
AD- 204 769

SPECDEVCCN-166-1-86
AD- 639 866

SPECDEVCCN-166-1-87
AD- 043 980

SPECDEVCCN-166-1-88
AD- 640 086

SPECDEVCCN-166-1-89
AD- 639 887

SPECDEVCCN-166-1-90
AD- 639 688

SPECDEVCCN-166-1-91
AD- 639 855

SPECDEVCCN-166-1-92
AD- 640 087

SPECDEVCCN-166-1-93
AD- 640 077

SPECDEVCCN-166-1-94
AD- 647 140

SPECDEVCCN-166-1-95
AD- 050 619

SPECDEVCCN-166-1-96
AD- 640 079

SPECDEVCCN-166-1-97
AD- 640 088

SPECDEVCCN-166-1-98
AD- 644 707

SPECDEVCCN-166-1-99
AD- 657 547

SPECDEVCCN-166-1-100
AD- 640 089

REPORT NUMBER INDEX-22
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-166-1-101 AD- 640 090	SPECDEVCEN-166-1-120 AD- 657 620	SPECDEVCEN-166-1-137 AD- 819 798
SPECDEVCEN-166-1-102 AD- 640 092	SPECDEVCEN-166-1-121 AD- 000 830	SPECDEVCEN-166-1-139 AD- 764 031
SPECDEVCEN-166-1-103 AD- 639 867	SPECDEVCEN-166-1-121-1 AD- 680 022	SPECDEVCEN-166-1-141 AD- 764 032
SPECDEVCEN-166-1-104 AD- 660 010	SPECDEVCEN-166-1-122 AD- 640 925	SPECDEVCEN-166-1-144 AD- 657 369
SPECDEVCEN-166-1-105 AD- 644 644	SPECDEVCEN-166-1-123 AD- 764 334	SPECDEVCEN-166-1-145 AD- 659 690
SPECDEVCEN-166-1-106 AD- 640 093	SPECDEVCEN-166-1-124 AD- 659 691	SPECDEVCEN-166-1-146 AD- 657 478
SPECDEVCEN-166-1-107 AD- 640 094	SPECDEVCEN-166-1-125 AD- 043 978	SPECDEVCEN-166-1-170 AD- 127 072
SPECDEVCEN-166-1-108 AD- 640 095	SPECDEVCEN-166-1-126 AD- 639 854	SPECDEVCEN-166-1-210 AD- 209 701
SPECDEVCEN-166-1-109 AD- 640 096	SPECDEVCEN-166-1-127 AD- 640 131	SPECDEVCEN-166-1-211 AD- 209 702
SPECDEVCEN-166-1-110 AD- 054 321	SPECDEVCEN-166-1-128 AD- 764 028	SPECDEVCEN-166-1-MCH-5 AD- 132 905
SPECDEVCEN-166-1-111 AD- 640 098	SPECDEVCEN-166-1-130 AD- 143 295	SPECDEVCEN-166-1-MH-C4 AD- 639 358
SPECDEVCEN-166-1-112 AD- 662 691	SPECDEVCEN-166-1-131 AD- 657 528	SPECDEVCEN-166-1-MHC-1 AD- 639 359
SPECDEVCEN-166-1-115 AD- 054 322	SPECDEVCEN-166-1-132 AD- 646 812	SPECDEVCEN-166-1-MHC-8 AD- 639 360
SPECDEVCEN-166-1-116 AD- 492 701	SPECDEVCEN-166-1-133 AD- 657 618	SPECDEVCEN-166-1-143 AD- 764 034
SPECDEVCEN-166-1-117 AD- 640 099	SPECDEVCEN-166-1-134 AD- 764 029	SPECDEVCEN-199-1-3 AD- 080 917
SPECDEVCEN-166-1-118 AD- 644 933	SPECDEVCEN-166-1-135 AD- 764 030	SPECDEVCEN-214-6-12 AD- 119 859
SPECDEVCEN-166-1-119 AD- 640 080	SPECDEVCEN-166-1-136 AD- 055 889	SPECDEVCEN-241-6-1 AD- 640 040

REPORT NUMBER INDEX-23
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-241-6-3
AD- 657 192

SPECDEVCEN-241-6-4
AD- 640 041

SPECDEVCEN-241-6-5
AD- 640 042

SPECDEVCEN-241-6-6
AD- 128 356

SPECDEVCEN-241-6-7
AD- 128 262

SPECDEVCEN-241-6-8
AD- 119 858

SPECDEVCEN-241-6-9
AD- 109 235

SPECDEVCEN-241-6-10
AD- 051 494

SPECDEVCEN-241-6-11
AD- 092 507

SPECDEVCEN-241-6-13
AD- 109 345

SPECDEVCEN-241-6-14
AD- 109 236

SPECDEVCEN-241-6-15
AD- 109 237

SPECDEVCEN-241-6-16
AD- 109 238

SPECDEVCEN-241-6-17
AD- 109 239

SPECDEVCEN-241-6-18
AD- 109 240

SPECDEVCEN-241-6-19
AD- 109 351

SPECDEVCEN-241-6-20
AD- 109 352

SPECDEVCEN-241-6-21
AD- 109 353

SPECDEVCEN-241-6-22
AD- 109 354

SPECDEVCEN-241-6-23
AD- 110 963

SPECDEVCEN-241-6-24
AD- 109 355

SPECDEVCEN-241-6-25
AD- 109 356

SPECDEVCEN-269-7
AD- 657 459

SPECDEVCEN-269-7-1
AD- 640 427

SPECDEVCEN-269-7-2
AD- 764 035

SPECDEVCEN-269-7-3
AD- 640 448

SPECDEVCEN-269-7-5
AD- 764 037

SPECDEVCEN-269-7-6
AD- 640 450

SPECDEVCEN-269-7-7
AD- 640 860

SPECDEVCEN-269-7-8
AD- 640 865

SPECDEVCEN-269-7-9
AD- 764 038

SPECDEVCEN-269-7-10
AD- 640 861

SPECDEVCEN-269-7-13
AD- 640 862

SPECDEVCEN-269-7-14
AD- 640 863

SPECDEVCEN-269-7-15
AD- 764 039

SPECDEVCEN-269-7-16
AD- 764 040

SPECDEVCEN-269-7-17
AD- 764 041

SPECDEVCEN-269-7-18
AD- 764 042

SPECDEVCEN-269-7-19
AD- 647 255

SPECDEVCEN-269-7-20
AD- 640 866

SPECDEVCEN-269-7-21
AD- 640 876

SPECDEVCEN-269-7-22
AD- 640 884

SPECDEVCEN-269-7-23
AD- 640 875

SPECDEVCEN-269-7-24
AD- 640 879

SPECDEVCEN-269-7-25
AD- 640 877

SPECDEVCEN-269-7-26
AD- 640 874

SPECDEVCEN-269-7-27
AD- 640 878

SPECDEVCEN-269-7-28
AD- 640 873

SPECDEVCEN-269-7-29
AD- 010 692

SPECDEVCEN-269-7-30
AD- 010 044

SPECDEVCEN-269-7-31
AD- 007 029

REPORT NUMBER INDEX-24
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-269-7-32
AD- 010 045

SPECDEVCEN-269-7-33
AD- 010 046

SPECDEVCEN-269-7-34
AD- 764 043

SPECDEVCEN-269-7-35
AD- 010 042

SPECDEVCEN-269-7-37
AD- 047 609

SPECDEVCEN-269-7-38
AD- 047 610

SPECDEVCEN-269-7-39
AD- 047 611

SPECDEVCEN-269-7-40
AD- 047 612

SPECDEVCEN-269-7-41
AD- 063 935

SPECDEVCEN-269-7-42
AD- 073 886

SPECDEVCEN-269-7-43
AD- 090 592

SPECDEVCEN-269-7-44
AD- 090 591

SPECDEVCEN-269-7-45
AD- 090 593

SPECDEVCEN-269-7-47
AD- 081 026

SPECDEVCEN-269-7-48
AD- 078 539

SPECDEVCEN-269-7-49
AD- 096 928

SPECDEVCEN-269-7-50
AD- 073 887

SPECDEVCEN-269-7-51
AD- 073 888

SPECDEVCEN-269-7-52
AD- 073 889

SPECDEVCEN-269-7-53
AD- 078 537

SPECDEVCEN-269-7-54
AD- 109 247

SPECDEVCEN-269-7-55
AD- 081 665

SPECDEVCEN-269-7-56
AD- 078 538

SPECDEVCEN-269-7-57
AD- 654 584

SPECDEVCEN-269-7-58
AD- 081 666

SPECDEVCEN-269-7-59
AD- 081 664

SPECDEVCEN-269-7-76
AD- 090 594

SPECDEVCEN-269-7-100
AD- 063 936

SPECDEVCEN-269-7-101
AD- 063 934

SPECDEVCEN-269-7-102
AD- 091 944

SPECDEVCEN-269-7-103
AD- 081 663

SPECDEVCEN-279-1-09
AD- 641 316

SPECDEVCEN-279-1-11
AD- 641 317

SPECDEVCEN-279-1-12
AD- 641 318

SPECDEVCEN-279-3-1
AD- 383 647
AD- 641 450

SPECDEVCEN-279-3-1-SUPPL-
AD- 665 695

SPECDEVCEN-279-3-2
AD- 642 022

SPECDEVCEN-279-3-3
AD- 642 023

SPECDEVCEN-279-3-4
AD- 641 446

SPECDEVCEN-279-3-5
AD- 641 448

SPECDEVCEN-279-3-6
AD- 641 452

SPECDEVCEN-279-3-7
AD- 641 455

SPECDEVCEN-279-3-8
AD- 377 646

SPECDEVCEN-279-3-9
AD- 656 634

SPECDEVCEN-279-3-10
AD- 659 514

SPECDEVCEN-279-3-11
AD- 065 248

SPECDEVCEN-279-3-12
AD- 014 170

SPECDEVCEN-279-3-13
AD- 043 899

SPECDEVCEN-279-3-14
AD- 014 177

SPECDEVCEN-279-3-15
AD- 043 900

SPECDEVCEN-279-3-16
AD- 050 779

REPORT NUMBER INDEX-25
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-279-3-17
AD- 043 981

SPECDEVCEN-279-3-18
AD- 079 296

SPECDEVCEN-279-3-19
AD- 065 249

SPECDEVCEN 279-3-20
AD- 065 246

SPECDEVCEN-279-3-21
AD- 081 025

SPECDEVCEN-279-3--22
AD- 065 247

SPECDEVCEN 279-3-23
AD- 112 900

SPECDEVCEN-316-1-1
AD- 641 582

SPECDEVCEN-316-1-2
AD- 641 581

SPECDEVCEN-316-1-3
AD- 641 580

SPECDEVCEN-316-1-4
AD- 641 584

SPECDEVCEN-316-1-5
AD- 641 585

SPECDEVCEN-316-1-6
AD- 641 583

SPECDEVCEN-316-1-7
AD- 657 191

SPECDEVCEN-316-1-8
AD- 641 587

SPECDEVCEN-316-1-9
AD- 657 480

SPECDEVCEN-316-1-10
AD- 641 586

SPECDEVCEN-322-1-2
AD- 228 749

SPECDEVCEN-370-2-1
AD- 657 464

SPECDEVCEN-383-1-1
AD- 641 598

SPECDEVCEN-383-1-2
AD- 641 597

SPECDEVCEN-383-1-3
AD- 641 596

SPECDEVCEN-383-1-4
AD- 641 594

SPECDEVCEN-383-1-5
AD- 641 590

SPECDEVCEN-383-1-6
AD- 641 588

SPECDEVCEN-383-1-7
AD- 641 595

SPECDEVCEN-383-1-8
AD- 641 599

SPECDEVCEN-383-1-9
AD- 641 591

SPECDEVCEN-383-1-10
AD- 641 592

SPECDEVCEN-383-1-11
AD- 651 675

SPECDEVCEN-383-1-12
AD- 641 593

SPECDEVCEN-383-1-13
AD- 641 589

SPECDEVCEN-383-2-1
AD- 642 312

SPECDEVCEN-383-2-1-SUPPL-
AD- 641 600
AD- 641 601

SPECDEVCEN-383-2-2
AD- 221 526

SPECDEVCEN-383-04-1
AD- 641 912

SPECDEVCEN-383-04-1-SUPPL
AD- 642 504

SPECDEVCEN-383-5-1
AD- 642 247

SPECDEVCEN-383-5-2
AD- 128 357

SPECDEVCEN-383-5-2-SUPPL
AD- 128 359

SPECDEVCEN-383-5-3
AD- 641 824

SPECDEVCEN-383-5-3-SUPPL
AD- 660 029

SPECDEVCEN-383-6-1
AD- 641 850

SPECDEVCEN-383-6-2
AD- 641 879

SPECDEVCEN-383-7-1
AD- 221 399

SPECDEVCEN-383-7-2
AD- 237 856

SPECDEVCEN-411-1-1
AD- 657 943

SPECDEVCEN-411-1-2
AD- 647 202

SPECDEVCEN-411-1-4
AD- 642 189

SPECDEVCEN-411-1-5
AD- 642 311

SPECDEVCEN-411-1-6
AD- 222 136

REPORT NUMBER INDEX-28
UNCLASSIFIED FQP40C

SPE-SPI

UNCLASSIFIED

SPECDEVCEN-411-1-7 AD- 642 390	SPECDEVCEN-494-01-2 AD- 222 892	SPECDEVCEN-641-2-4 AD- 642 799
SPECDEVCEN-411-1-8 AD- 657 945	SPECDEVCEN-494-01-3 AD- 222 931	SPECDEVCEN-641-2-5 AD- 643 153
SPECDEVCEN-411-1-9 AD- 657 946	SPECDEVCEN-494-08-1 AD- 096 883	SPECDEVCEN-641-2-6 AD- 642 865
SPECDEVCEN-411-1-10 AD- 642 387	SPECDEVCEN-495-01-1 AD- 642 505	SPECDEVCEN-641-2-7 AD- 658 632
SPECDEVCEN-411-1-11 AD- 642 506	SPECDEVCEN-495-01-3 AD- 642 527	SPECDEVCEN-641-2-8 AD- 643 154
SPECDEVCEN-411-1-12 AD- 657 422	SPECDEVCEN-495-01-4 AD- 207 127	SPECDEVCEN-641-2-9 AD- 643 118
SPECDEVCEN-411-1-13 AD- 642 508	SPECDEVCEN-495-01-4.1 AD- 642 586	SPECDEVCEN-641-2-10 AD- 643 155
SPECDEVCEN-411-1-14 AD- 642 481	SPECDEVCEN-495-01-4.2 AD- 642 588	SPECDEVCEN-641-2-11 AD- 643 115
SPECDEVCEN-411-1-15 AD- 642 509	SPECDEVCEN-495-01-4.3 AD- 642 589	SPECDEVCEN-641-2-12 AD- 385 662
SPECDEVCEN-411-1-17 AD- 642 386	SPECDEVCEN-495-01-4.4 AD- 657 947	SPECDEVCEN-641-2-13 AD- 643 829
SPECDEVCEN-411-1-18 AD- 657 474	SPECDEVCEN-495-01-4.5 AD- 642 590	SPECDEVCEN-641-2-14 AD- 643 117
SPECDEVCEN-422-850 AD- 644 653	SPECDEVCEN-495-07-1 AD- 642 595	SPECDEVCEN-641-2-15 AD- 643 116
SPECDEVCEN-422-900 AD- 644 654	SPECDEVCEN-530-01-1 AD- 008 062	SPECDEVCEN-641-2-17 AD- 005 391
SPECDEVCEN-476-02-2 AD- 642 396	SPECDEVCEN-641-1-1 AD- 642 738	SPECDEVCEN-641-3-1 AD- 820 545
SPECDEVCEN-476-02-3 AD- 642 526	SPECDEVCEN-641-2-1 AD- 642 739	SPECDEVCEN-641-3-2 AD- 646 615
SPECDEVCEN-476-02-S3 AD- 109 218	SPECDEVCEN-641-2-2 AD- 643 828	SPECDEVCEN-641-3-3 AD- 820 546
SPECDEVCEN-494-01-1 AD- 642 391	SPECDEVCEN-641-2-3 AD- 642 800	SPECDEVCEN-641-3-4 AD- 820 543

REPORT NUMBER INDEX-27
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCEN-641-3-5
AD- 643 156

SPECDEVCEN-641-3-6
AD- 643 172

SPECDEVCEN-641-3-7
AD- 384 098

SPECDEVCEN-641-3-8
AD- 643 184

SPECDEVCEN-641-3-9
AD- 643 205

SPECDEVCEN-797-01-1
AD- 128 827

SPECDEVCEN-895-00-1
AD- 022 812

SPECDEVCEN-911-000A
AD-A950 000

SPECDEVCEN-927-00
AD- 858 739

SPECDEVCEN-938 1
AD- 643 406

SPECDEVCEN-938-1-2
AD- 643 407

SPECDEVCEN-938-1-3
AD- 643 656

SPECDEVCEN-938-1-4
AD- 643 409

SPECDEVCEN-938-1-5
AD- 643 410

SPECDEVCEN-938-1-6
AD- 643 411

SPECDEVCEN-938-1-7
AD- 643 412

SPECDEVCEN-938-1-8
AD- 643 413

SPECDEVCEN-938-1-9
AD- 643 405

SPECDEVCEN-938-1-10
AD- 643 414

SPECDEVCEN-954-00-18
AD- 643 655

SPECDEVCEN-954-00-19
AD- 379 146

SPECDEVCEN-954-00-20
AD- 378 181

SPECDEVCEN-954-00-21
AD- 049 245

SPECDEVCEN-954-00-22
AD- 042 775

SPECDEVCEN-954-00-23
AD- 049 796

SPECDEVCEN-954-00-24
AD- 042 774

SPECDEVCEN-954-00-25
AD- 058 443

SPECDEVCEN-954-17
AD- 820 544

SPECDEVCEN-971-0-1
AD- 120 153

SPECDEVCEN-999-1-1
AD- 643 499

SPECDEVCEN-999-1-2
AD- 654 581

SPECDEVCEN-999-2-1
AD- 086 988

SPECDEVCEN-999-2-2
AD- 133 265

SPECDEVCEN-999-2-3
AD- 140 998

SPECDEVCEN-999-2-38
AD- 204 917

SPECDEVCEN-999-2-4
AD- 110 925

SPECDEVCEN-1042-00-1
AD- 116 027

SPECDEVCEN-1043-00-1
AD- 042 391

SPECDEVCEN-1043-00-2
AD- 656 633

SPECDEVCEN-1046-00-1
AD- 646 708

SPECDEVCEN-1051-00-1
AD- 646 774

SPECDEVCEN-1257-1-1
AD- 643 654

SPECDEVCEN-37003
AD- 660 000

SPECDEVCEN-37003-1
AD- 660 005

SPECDEVCEN-37003-3
AD- 660 024

SPECDEVCEN-37003-4
AD- 660 025

SPECDEVCEN-37003-5
AD- 660 026

SPECDEVCEN-MR-186-1-MHC-2
AD- 658 891

SPECDEVCEN-NAWEXOS-P-643
AD- 043 650

SPECDEVCEN-NAWEXOS-P-977
AD- 647 255

SPECDEVCEN-NAWEXOS-P-1060
AD- 639 030

REPORT NUMBER INDEX-28
UNCLASSIFIED FQP40C

SPE-SPE

UNCLASSIFIED

SPECDEVCE-NAVEXOS-P-1220
AD- 045 501

SPECDEVCE-P-991
AD- 010 324

SPECDEVCE-TR-342-0
AD- 385 884

SR-1
AD- 857 459

SS-1228
AD- 882 832

TAEG-4
AD-A086 545

TAEG-5
AD- 777 428

TAEG-7
AD- 788 445

TAEG-8
AD- 773 458

TAEG-9-1
AD-A018 445

TAEG-9-2
AD-A019 191

TAEG-10
AD- 773 745

TAEG-11-1
AD- 773 458

TAEG-11-2
AD- 788 702

TAEG-12-1-VOL-1
AD- 774 931

TAEG-12-1-VOL-2
AD- 774 932

TAEG-12-2-VOL-1
AD-A004 929

TAEG-12-2-VOL-2
AD-A005 414

TAEG-12-2-VOL-3
AD-A004 930

TAEG-13-1
AD-A006 858

TAEG-14
AD- 777 040

TAEG-15
AD-B008 049L

TAEG-16
AD-A012 859

TAEG-17
AD-A015 294

TAEG-18
AD-A011 452

TAEG-19
AD-A011 118

TAEG-20
AD-A018 089

TAEG-21-1
AD-A018 890

TAEG-21-2
AD-A015 329

TAEG-22-1
AD-A015 330

TAEG-22-2
AD-A015 331

TAEG-23
AD-A023 088

TAEG-25
AD-A013 330

TAEG-27
AD-A015 825

TAEG-28
AD-A024 482

TAEG-29
AD-A018 089

TAEG-30
AD-A018 012

TAEG-31
AD-A024 214

TAEG-32
AD-A051 647

TAEG-33
AD-A028 289

TAEG-34
AD-A028 528

TAEG-35
AD-A029 714

TAEG-36
AD-A040 238

TAEG-37
AD-A048 700

TAEG-38
AD-A038 477

TAEG-39-VOL-1
AD-A038 517

TAEG-39-VOL-2
AD-A038 518

TAEG-40-VOL-1
AD-A041 217

TAEG-40-VOL-2
AD-A041 281

TAEG-41
AD-A038 402

TAEG-42
AD-A035 771

REPORT NUMBER INDEX-29
UNCLASSIFIED FQP40C

SPE-TAE

UNCLASSIFIED

TAEG-43
AD-A036 875

TAEG-44
AD-A040 139

TAEG-45
AD-A041 466

TAEG-46
AD-A046 025

TAEG-47
AD-A044 029

TAEG-48
AD-A044 519

TAEG-49
AD-A051 966

TAEG-50
AD-A047 648

TAEG-51
AD-A048 991

TAEG-52
AD-A048 183

TAEG-53
AD-A053 007

TAEG-54
AD-A053 650

TAEG-55
AD-A053 207

TAEG-56
AD-A057 011

TAEG-57
AD-A060 583

TAEG-58
AD-A060 143

TAEG-59-VOL-1
AD-A058 572

TAEG-59-VOL-2
AD-A061 611

TAEG-60
AD-A064 218

TAEG-61
AD-A060 815

TAEG-62
AD-A062 647

TAEG-63
AD-A061 143

TAEG-64
AD-A063 742

TAEG-65
AD-A065 095

TAEG-66
AD-A068 041

TAEG-67
AD-A068 473

TAEG-67-SUPPL-1
AD-A068 536

TAEG-68
AD-A070 037

TAEG-71
AD-A073 402

TAEG-72
AD-A071 576

TAEG-73
AD-A073 136

TAEG-75
AD-A077 437

TAEG-76
AD-A079 558

TAEG-77
AD-A081 759

TAEG-78
AD-A080 183

TAEG-79
AD-A079 288

TAEG-80
AD-A088 882

TAEG-81
AD-A086 403

TAEG-83
AD-A096 873

TAEG-84
AD-A084 067

TAEG-85
AD-A089 847

TAEG-86
AD-A087 103

TAEG-87
AD-A086 883

TAEG-88
AD-A088 638

TAEG-89
AD-A088 702

TAEG-90
AD-A090 286

TAEG-91
AD-A091 211

TAEG-92
AD-A097 671

TAEG-95
AD-A095 965

TAEG-96
AD-A096 073

TAEG-97
AD-A098 411

REPORT NUMBER INDEX-30
UNCLASSIFIED FQP40C

TAE-TAE

UNCLASSIFIED

TAEG-98 AD-A098 530	TAEG-TM-80-7 AD-A094 891	TR-5 AD- 493 794
TAEG-99 AD-A100 279	TAEG-TM-81-3 AD-A098 485	TR-20 AD- 473 704
TAEG-100 AD-A104 683	TAEG-TM-81-4 AD-A102 028	TR23 AD- 058 392
TAEG-101 AD-A100 278	TAEG-TM-82-1 AD-A113 171	TR-69-65 AD- 712 773
TAEG-102 AD-A102 464	TAEG-TM-82-2 AD-A114 408	TR-69-66 AD- 712 774
TAEG-106-VOL-1 AD-A103 678	TAEG-TM-82-3 AD-A113 375	TR71 43 1 AD- 109 263
TAEG-107 AD-A109 779	TAEG-TN-1-81 AD-A096 258	TR-73 AD- 784 379
TAEG-108 AD-A106 939	TAEG-TN-4-81 AD-A099 488	TR-81-014 AD-A111 392
TAEG-109 AD-A103 578	TAEG-TN-5-79 AD-A070 828	TR-81-015 AD-A108 801
TAEG-110 AD-A108 213	TAEG-TN-8-80 AD-A091 013	TR-81-022 AD-A112 475
TAEG-TM-75-4 AD-A015 624	TAEG-TN-8-80 AD-A094 453	TR-81-025 AD-A112 486
TAEG-TM-76-1 AD-A029 179	TAEG-TR-93 AD-A095 008	TR-2204 AD- 394 449L
TAEG-TM-76-2 AD-A029 195	TAEG-TR-94 AD-A095 007	TRG-043-TN-1-REV AD- 888 191L
TAEG-TM-77-3 AD-A040 260	TAEG-TR-113 AD-A113 109	TRG-064-20-I-19 AD- 529 337L
TAEG-TM-77-5 AD-A043 169	TM-366 AD- 049 973	U87-1043 AD- 662 407
TAEG-TM-79-6 AD-A077 051	TN WCLE 53 123 AD- 056 720	VEDA-53247-80U/P0025 AD-A093 767
TAEG-TM-79-7 AD-A078 685	TR-1 AD- 116 027	WDL-TR-4040 AD- 878 773

REPORT NUMBER INDEX-31
UNCLASSIFIED FQP40C

TAE-XEO

UNCLASSIFIED

XEOS-2350-AD-204-REV
AD-A102 277

XEOS-2350-AD-227-REV
AD-A102 278

REPORT NUMBER INDEX-32
UNCLASSIFIED FQP40C

XEO-XEO

AD NUMBER INDEX

AD	REPORT NO.	AD	REPORT NO.	AD	REPORT NO.
000 830	SPECDEVCM-166-1-121	047 610	SPECDEVCM-269-7-38	081 025	SPECDEVCM-279-3-21
005 391	SPECDEVCM-641-2-17	047 611	SPECDEVCM-269-7-39	081 026	SPECDEVCM-269-7-47
007 029	SPECDEVCM-269-7-31	047 612	SPECDEVCM-269-7-40	081 663	SPECDEVCM-269-7-103
008 062	SPECDEVCM-530-01-1	049 245	SPECDEVCM-954-00-21	081 664	SPECDEVCM-269-7-59
010 042	SPECDEVCM-269-7-35	049 796	SPECDEVCM-954-00-23	081 665	SPECDEVCM-269-7-55
010 044	SPECDEVCM-269-7-30	050 619	SPECDEVCM-166-1-95	081 666	SPECDEVCM-269-7-58
010 045	SPECDEVCM-269-7-32	050 779	SPECDEVCM-279-3-16	086 988	SPECDEVCM-999-2-1
010 046	SPECDEVCM-269-7-33	051 494	SPECDEVCM-241-6-10	090 161	SPECDEVCM-20-TV-2
010 324	SPECDEVCM-P-991	051 713	SPECDEVCM-9037A-1	090 591	SPECDEVCM-269-7-44
010 692	SPECDEVCM-269-7-29	054 321	SPECDEVCM-166-1-110	090 592	SPECDEVCM-269-7-43
014 170	SPECDEVCM-279-3-12	054 322	SPECDEVCM-166-1-115	090 593	SPECDEVCM-269-7-45
014 177	SPECDEVCM-279-3-14	055 889	SPECDEVCM-166-1-136	090 594	SPECDEVCM-269-7-76
022 812	SPECDEVCM-895-00-1	058 443	SPECDEVCM-954-00-25	090 614	SPECDEVCM-71-16-14
025 297	SPECDEVCM-71-16-9	062 804	166-1-24	091 944	SPECDEVCM-269-7-102
036 713	SPECDEVCM-106-21	063 934	SPECDEVCM-269-7-101	092 507	SPECDEVCM-241-6-11
042 391	SPECDEVCM-1043-00-1	063 935	SPECDEVCM-269-7-41	095 052	NAVTRADEVCM-104-2-45
042 774	SPECDEVCM-954-00-24	063 936	SPECDEVCM-269-7-100	096 883	SPECDEVCM-494-08-1
042 775	SPECDEVCM-954-00-22	065 247	SPECDEVCM-279-3-22	096 928	SPECDEVCM-269-7-49
042 860	SPECDEVCM-104-2-35	065 248	SPECDEVCM-279-3-11	109 218	SPECDEVCM-476-02-83
042 981	SPECDEVCM-104-2-32	065 249	SPECDEVCM-279-3-19	109 235	SPECDEVCM-241-6-9
043 650	SPECDEVCM-NAVEXOS-P-643	070 889	SPECDEVCM-71-16-15	109 236	SPECDEVCM-241-6-14
043 899	SPECDEVCM-279-3-13	072 813	SPECDEVCM-166-1-10	109 237	SPECDEVCM-241-6-15
043 900	SPECDEVCM-279-3-15	073 740	SPECDEVCM-106-9	109 238	SPECDEVCM-241-6-16
043 978	SPECDEVCM-166-1-125	073 886	SPECDEVCM-269-7-42	109 239	SPECDEVCM-241-6-17
043 979	SPECDEVCM-166-1-16	073 887	SPECDEVCM-269-7-50	109 240	SPECDEVCM-241-6-18
043 980	SPECDEVCM-166-1-87	073 888	SPECDEVCM-269-7-51	109 245	SPECDEVCM-104-2-43
043 981	SPECDEVCM-279-3-17	073 889	SPECDEVCM-269-7-52	109 246	SPECDEVCM-104-2-40
044 181	SPECDEVCM-166-1-21	074 026	SPECDEVCM-106-10	109 247	SPECDEVCM-269-7-54
045 389	SPECDEVCM-104-2-28	075 348	SPECDEVCM-104-2-41	109 263	SPECDEVCM-71-43-1
045 390	SPECDEVCM-104-2-29	078 536	SPECDEVCM-104-2-42	109 345	SPECDEVCM-241-6-13
045 502	SPECDEVCM-104-2-27	078 537	SPECDEVCM-269-7-53	109 351	SPECDEVCM-241-6-19
045 503	SPECDEVCM-104-2-33	078 538	SPECDEVCM-269-7-56	109 352	SPECDEVCM-241-6-20
045 504	SPECDEVCM-104-2-34	078 539	SPECDEVCM-269-7-48	109 353	SPECDEVCM-241-6-21
046 732	SPECDEVCM-166-1-34	080 477	NAVTRADEVCM-P-1430	109 354	SPECDEVCM-241-6-22
047 609	SPECDEVCM-269-7-37	080 917	NAVEXOS-P-643	109 355	SPECDEVCM-241-6-24

AD	REPORT NO.	AD	REPORT NO.	AD	REPORT NO.
109 356	SPECDEVCEM-241-6-25	140 735	SPECDEVCEM-131-1-3	220 477	NAVTRADEVCEM-20-08-52
110 925	SPECDEVCEM-999-2-4	140 998	SPECDEVCEM-999-2-3	221 399	SPECDEVCEM-383-7-1
110 963	241-6-23	141 959	NAVTRADEVCEM-322-1-1	221 526	SPECDEVCEM-383-2-2
111 557	SPECDEVCEM-104-2-17	142 674	NAVTRADEVCEM-1915-00-3	221 573	SPECDEVCEM-104-2-37
112 279	SPECDEVCEM-71-16-13	143 295	SPECDEVCEM-166-1-130	222 136	SPECDEVCEM-411-1-6
113 128	NAVTRADEVCEM-1927-00-1	143 738	NAVTRADEVCEM-104-2-51	222 892	SPECDEVCEM-494-01-2
113 742	NAVTRADEVCEM-668-9-1	143 781	NAVTRADEVCEM-1908-00-1	225 517	NAVTRADEVCEM-789-11-1
113 744	NAVTRADEVCEM-668-9-2	144 672	SPECDEVCEM-166-1-22	227 192	NAVTRADEVCEM-404-Vol-1
114 651	NAVTRADEVCEM-269-7-61	149 500	NAVTRADEVCEM-1339-28-1	227 193	NAVTRADEVCEM-404-Vol-2
115 482	NAVTRADEVCEM-1648-00-1	149 547	NAVTRADEVCEM-71-16-16	227 558	NAVTRADEVCEM-1628-2
115 706	NAVTRADEVCEM-1257-2-1	150 185	NAVTRADEVCEM-1339-28-3	228 749	SPECDEVCEM-322-1-2
116 027	SPECDEVCEM-1042-00-1	150 818	1339-28-2	228 942	NAVTRADEVCEM-318-1
119 858	SPECDEVCEM-241-6-8	159 629	NAVTRADEVCEM-20-08-23-1	230 996	NAVTRADEVCEM-458-1
119 859	SPECDEVCEM-214-6-12	160 447	SPECDEVCEM-57-2-10	230 997	NAVTRADEVCEM-508-1
120 153	SPECDEVCEM-971-0-1	201 668	NAVTRADEVCEM-7591-R-1	230 998	NAVTRADEVCEM-508-2
121 200	SPECDEVCEM-71-16-11	202 401	NAVTRADEVCEM-104-2-52	230 999	NAVTRADEVCEM-508-3
125 185	NAVTRADEVCEM-104-2-49	202 886	NAVTRADEVCEM-20-08-23-2	231 000	NAVTRADEVCEM-508-4
125 465	NAVTRADEVCEM-1915-00-1	203 255	NAVTRADEVCEM-1908-00-2	231 477	NAVTRADEVCEM-74-1
126 262	SPECDEVCEM-241-6-7	204 059	SPECDEVCEM-166-1-47	233 882	NAVTRADEVCEM-1628-1
127 071	SPECDEVCEM-166-1-3	204 769	SPECDEVCEM-166-1-85	233 912	NAVTRADEVCEM-1628-5
127 072	SPECDEVCEM-166-1-170	204 917	SPECDEVCEM-999-2-38	233 913	NAVTRADEVCEM-1628-8
127 495	SPECDEVCEM-104-2-46	205 252	NAVTRADEVCEM-69-7	233 915	NAVTRADEVCEM-1628-10
127 496	NAVTRADEVCEM-104-2-44	205 253	NAVTRADEVCEM-69-3	235 074	NAVTRADEVCEM-1628-7
128 356	SPECDEVCEM-241-6-6	205 680	NAVTRADEVCEM-20-EM-1-1M	235 880	NAVTRADEVCEM-1628-3
128 357	SPECDEVCEM-383-5-2	207 127	SPECDEVCEM-495-01-4	235 881	NAVTRADEVCEM-1628-4
128 359	SPECDEVCEM-383-5-2-SUPPL	207 656	NAVTRADEVCEM-20-08-31-1	235 882	NAVTRADEVCEM-1528-6
128 719	SPECDEVCEM-166-00-3	207 657	NAVTRADEVCEM-20-08-23-4	235 883	NAVTRADEVCEM-1628-11
128 827	SPECDEVCEM-797-01-1	207 658	NAVTRADEVCEM-20-08-21	237 656	SPECDEVCEM-383-7-2
130 703	NAVTRADEVCEM-69-1	209 185	NAVTRADEVCEM 71-16-17	237 913	NAVTRADEVCEM-71-2
132 905	SPECDEVCEM-166-1-EM-5	209 701	SPECDEVCEM-166-1-210	238 773	NAVTRADEVCEM-316-1
133 265	SPECDEVCEM-999-2-2	209 702	SPECDEVCEM-166-1-211	238 774	NAVTRADEVCEM-340-1
135 631	SPECDEVCEM-151-1-12	211 710	5-111	238 777	NAVTRADEVCEM-307-1
136 800	SPECDEVCEM-71-16-3	212 031	NAVTRADEVCEM-20-08-3-1	239 237	NAVTRADEVCEM-1908-00-3
139 610	SPECDEVCEM-58-2-2	212 519	NAVTRADEVCEM-682-11-1	240 664	NAVTRADEVCEM-190-54-1
140 210	SPECDEVCEM-204-22-1	214 729	NAVTRADEVCEM 9-11-1	241 209	NAVTRADEVCEM-507-2

AD	REPORT NO.
241	901 NAVTRADEVCE-330-1
242	580 NAVTRADEVCE-297-1
242	697 NAVTRADEVCE-364-1
243	219 NAVTRADEVCE-373-1
243	372 NAVTRADEVCE-558-1
247	147 NAVTRADEVCE-198-2
248	260 NAVTRADEVCE-1908-00-4
248	419 NAVTRADEVCE-348-2
251	450 NAVTRADEVCE-512-1
253	068 NAVTRADEVCE-565-1
256	342 NAVTRADEVCE-880-1
256	346 NAVTRADEVCE-316-2
256	884 NAVTRADEVCE-502-1
259	187 NAVTRADEVCE-588-1
259	505 NAVTRADEVCE-297-2
259	512 NAVTRADEVCE-560-1
259	513 NAVTRADEVCE-294-3
259	992 NAVTRADEVCE-797-1
259	993 NAVTRADEVCE-790
259	994 NAVTRADEVCE-661-1
262	667 NAVTRADEVCE-318-4
262	779 NAVTRADEVCE-507-3
262	937 NAVTRADEVCE-342-3
264	364 NAVTRADEVCE-784-1
264	377 NAVTRADEVCE-297-3
264	381 NAVTRADEVCE-784-2
264	568 NAVTRADEVCE-784-3
264	953 NAVTRADEVCE-P-1491
265	884 NAVTRADEVCE-502-1
266	704 NAVTRADEVCE-748-1
267	660 NAVTRADEVCE-198-3
267	685 NAVTRADEVCE-TR-759-2
268	042 NAVTRADEVCE-TR-759-1
268	337 NAVTRADEVCE-342-4
274	175 NAVTRADEVCE-772

AD	REPORT NO.
275	649 NAVTRADEVCE-594-1
275	921 NAVTRADEVCE-950-1
276	696 NAVTRADEVCE-1025-1
277	617 NAVTRADEVCE-950-2
279	206 NAVTRADEVCE-836-1
281	343 NAVTRADEVCE-558-2
283	105 NAVTRADEVCE-565-2
283	848 NAVTRADEVCE-588-2
283	911 NAVTRADEVCE-801
284	679 NAVTRADEVCE-565-3
284	977 NAVTRADEVCE-IH-1
287	905 NAVTRADEVCE-520-1
289	152 NAVTRADEVCE-115-1
291	468 NAVTRADEVCE-1053-1
291	762 NAVTRADEVCE-90-1
291	788 NAVTRADEVCE-1000-1
292	120 NAVTRADEVCE-506-1
297	378 NAVTRADEVCE-836-2
297	812 NAVTRADEVCE-1084-1
297	838 NAVTRADEVCE-1146-1
300	868 NAVTRADEVCE-1939-0-3
300	870 NAVTRADEVCE-1939-0-1
300	891 NAVTRADEVCE-1939-0-2
301	768 NAVTRADEVCE-76-3
302	263 NAVTRADEVCE-128-2
302	866 NAVTRADEVCE-69-4
303	119 NAVTRADEVCE-69-6
303	120 NAVTRADEVCE-69-5
305	428 NAVTRADEVCE-336-1
311	612 NAVTRADEVCE-DS3
313	496 NAVTRADEVCE-306-1
314	013 NAVTRADEVCE-381-1
315	350 NAVTRADEVCE-198-1
317	363 NAVTRADEVCE-707-1
320	307 NAVTRADEVCE-663-1

AD	REPORT NO.
323	180 NAVTRADEVCE-318-2
343	975 NAVTRADEVCE-1316-1
345	673 NAVTRADEVCE-1316-3
348	981 NAVTRADEVCE-1316-4
348	987 NAVTRADEVCE-1316-5
349	778L NAVTRADEVCE-1316-6
350	574 NAVTRADEVCE-932-1
350	847 NAVTRADEVCE-1316-7
354	390 NAVTRADEVCE-1445-S-1
354	672 NAVTRADEVCE-1329-1-1
364	166 NAVTRADEVCE-1385-6
367	646 NAVTRADEVCE-1326-Vol-3
368	968L NAVTRADEVCE-1407-2
376	639 NAVTRADEVCE-IH-18
377	630L NAVTRADEVCE-1813-2
377	646 SPECDEVCE-279-3-8
378	180 NAVTRADEVCE-342-6
378	181 SPECDEVCE-954-00-20
378	903 NAVTRADEVCE-76-1
379	146 SPECDEVCE-954-00-19
380	020L NAVTRADEVCE-IH-66
381	442 NAVTRADEVCE-1757-1
383	587 NAVTRADEVCE-NAVEKOS-P-1731
383	647 SPECDEVCE-279-3-1
384	098 SPECDEVCE-641-3-7
385	662 SPECDEVCE-641-2-12
385	664 SPECDEVCE-TR-342-0
394	449L NAVTRADEVCE-66-C-0089-1
395	927L NAVTRADEVCE-68-C-0037-1
401	583 NAVTRADEVCE-955-1
401	748 NAVTRADEVCE-838-2
405	853 NAVTRADEVCE-1188-1
407	440 NAVTRADEVCE-783-1
408	681 NAVEXOS-P5302-S1-R4
410	239 NAVTRADEVCE-458-1

AD	REPORT NO.	AD	REPORT NO.	AD	REPORT NO.
410	805	NAVTRADEVCCN-323-1	475	879	NAVTRADEVCCN-1218-5
413	883	NAVEXOS-P5302S1R5	477	963	NAVTRADEVCCN-1327-2
414	666	NAVTRADEVCCN-323-2	479	782	NAVTRADEVCCN-1651-1
419	861	NAVTRADEVCCN-822-3	484	396	NAVTRADEVCCN-318-5
419	929	NAVTRADEVCCN-822-4	485	636	NAVTRADEVCCN-1327-3
419	960	NAVTRADEVCCN-822-2	486	430	NAVTRADEVCCN-1813-1
424	149	NAVTRADEVCCN-822-1	490	890	NAVTRADEVCCN-69-2
424	625	NAVTRADEVCCN-1025-2	492	701	NRL-reprint-23-52
426	442	NAVTRADEVCCN-1907-7315	493	403	SPECDEVCCN-166-1-82
431	026	NAVTRADEVCCN-786-2	493	684	SPECDEVCCN-20-F-2
431	545	NAVTRADEVCCN-562-1	493	794	TR-5
432	028	NAVTRADEVCCN-1103-1	500	059	NAVTRADEVCCN-1385-4
434	816	NAVTRADEVCCN-1169-1	503	441L	NAVTRADEVCCN-68-C-0314-2
435	547	NAVTRADEVCCN-1628-16	503	679	NAVTRADEVCCN-1822-1
436	258	NAVTRADEVCCN-1169-2	511	956	NAVTRADEVCCN-68-C-0050-3
436	273	NAVTRADEVCCN-9U96-2	512	675	NAVTRADEVCCN-66-C-0113-1
438	924	NAVTRADEVCCN-1231-1	517	522L	NAVTRADEVCCN-753-1
439	418	NAVTRADEVCCN-1089-1	518	463L	NAVTRADEVCCN-69-C-0310-1
442	643	NAVTRADEVCCN-1097-1	529	337L	NAVTRADEVCCN-1894-3
445	863	NAVTRADEVCCN-IH-14	600	240	NAVTRADEVCCN-1025-3
445	869	NAVTRADEVCCN-1218-1	601	022	NAVTRADEVCCN-1205-1
445	870	NAVTRADEVCCN-1218-2	601	352	NAVTRADEVCCN-3143-1
445	871	NAVTRADEVCCN-1218-3	602	079	NAVTRADEVCCN-789-2
446	397	NAVTRADEVCCN-1105-1	602	283	NAVTRADEVCCN-294-5
447	252	NAVTRADEVCCN-IH-12	602	427	NAVTRADEVCCN-1205-2
447	537	NAVTRADEVCCN-1445-1	602	516	NAVTRADEVCCN-IH-7
447	882	NAVTRADEVCCN-789-3	603	329	NAVTRADEVCCN-1320-1
447	975	NAVTRADEVCCN-IH-2	603	546	NAVTRADEVCCN-1303-3
464	496	NAVTRADEVCCN-1086-2	604	866	NAVTRADEVCCN-1303-2
464	614	NAVTRADEVCCN-1086-1	605	387	NAVTRADEVCCN-1303-1
471	806	NAVTRADEVCCN-1388-1	607	718	NAVTRADEVCCN-IH-15
472	155	NAVTRADEVCCN-1248-4	607	719	NAVTRADEVCCN-IH-21
472	414	NAVTRADEVCCN-1345-1	607	737	NAVTRADEVCCN-1205-3-PT1
473	704	TR-20	607	738	NAVTRADEVCCN-1205-3-PT2
			607	739	NAVTRADEVCCN-IH-13
			607	740	NAVTRADEVCCN-1215-1
			607	741	NAVTRADEVCCN-1182-5
			607	782	NAVTRADEVCCN-1208-1
			607	888	NAVTRADEVCCN-1329-1
			608	309	NAVTRADEVCCN-1327-1
			608	568	NAVTRADEVCCN-IH-19
			609	358	NAVTRADEVCCN-IH-16
			609	364	NAVTRADEVCCN-1557-1
			609	605	NAVTRADEVCCN-1449-1
			610	572	NAVTRADEVCCN-1395-1
			611	412	NAVTRADEVCCN-1205-4
			612	278	NAVTRADEVCCN-656-1
			615	452	NAVTRADEVCCN-1205-5
			615	907	NAVTRADEVCCN-1297-1
			617	689	NAVTRADEVCCN-1432-1
			618	756	NAVTRADEVCCN-1432-1-S1
			619	046	NAVTRADEVCCN-1517-1
			619	047	NAVTRADEVCCN-1428-1
			619	066	NAVTRADEVCCN-1440-1
			619	164	NAVTRADEVCCN-1311-1
			619	283	NAVTRADEVCCN-1212-1
			619	284	NAVTRADEVCCN-1444-1
			621	711	NAVTRADEVCCN-695-1-Vol-1
			623	135	NAVTRADEVCCN-1537-1
			623	385	NAVTRADEVCCN-IH-37
			623	815	NAVTRADEVCCN-695-1-Vol-2
			624	531	NAVTRADEVCCN-IH-33
			625	120	NAVTRADEVCCN-1450-1
			625	121	NAVTRADEVCCN-IH-34
			625	122	NAVTRADEVCCN-1574-1
			625	123	NAVTRADEVCCN-IH-11
			625	124	NAVTRADEVCCN-1450-2
			626	125	NAVTRADEVCCN-IH-30

AD	REPORT NO.
626	468 NAVTRADEVCEH-IH-40
627	099 NAVTRADEVCEH-1407-1
628	449 NAVTRADEVCEH-IH-42
628	749 NAVTRADEVCEH-439-2
629	759 NAVTRADEVCEH-58-2-4
630	246 NAVTRADEVCEH-IH-17
630	260 NAVTRADEVCEH-4119-1
630	268 NAVTRADEVCEH-1495-1
630	275 NAVTRADEVCEH-IH-48
630	278 NAVTRADEVCEH-1491-2
630	312 NAVTRADEVCEH-1341-1
631	405 NAVTRADEVCEH-IH-41
631	592 NAVTRADEVCEH-1526-1
631	840 NAVTRADEVCEH-IH-49
634	221 NAVTRADEVCEH-IH-52
634	338 NAVTRADEVCEH-1594-1
634	542 NAVTRADEVCEH-511-1
634	917 NAVTRADEVCEH-1867-1
635	772 NAVTRADEVCEH-IH-44
635	869 NAVTRADEVCEH-IH-53
636	397 NAVTRADEVCEH-IH-56
636	848 NAVTRADEVCEH-1767
636	969 NAVTRADEVCEH-IH-57
637	200 NAVTRADEVCEH-1638-1
637	538 SPECDEVCEH-71-16-10
637	570 NAVTRADEVCEH-71-16-18
637	659 NAVTRADEVCEH-1614-1
638	330 NAVTRADEVCEH-78-1
638	347 SPECDEVCEH-71-16-1M
638	350 SPECDEVCEH-104-2-10
638	351 SPECDEVCEH-104-2-9
638	353 SPECDEVCEH-104-2-6
638	355 SPECDEVCEH-104-2-4
638	868 SPECDEVCEH-20L-4-1

AD	REPORT NO.
639	026 SPECDEVCEH-151-1-1
639	027 SPECDEVCEH-151-1-2
639	029 NAVTRADEVCEH-151-1-16
639	030 SPECDEVCEH-NAVEKOS-P-1060
639	031 SPECDEVCEH-71-16-5A
639	032 SPECDEVCEH-71-16-9
639	033 SPECDEVCEH-17-1-1
639	034 NAVTRADEVCEH-NAVEKOS-P-1543
639	035 SPECDEVCEH-58-1-1
639	036 SPECDEVCEH-58-1-3
639	037 SPECDEVCEH-58-1-4
639	038 SPECDEVCEH-58-1-5
639	039 SPECDEVCEH-58-1-6
639	040 SPECDEVCEH-58-2-1
639	041 SPECDEVCEH-58-2-5
639	042 SPECDEVCEH-58-2-7
639	043 SPECDEVCEH-58-2-8
639	044 SPECDEVCEH-58-2-9
639	045 SPECDEVCEH-58-2-11
639	046 SPECDEVCEH-58-3-1
639	055 SPECDEVCEH-151-1-10
639	084 SPECDEVCEH-104-2-15
639	085 SPECDEVCEH-104-2-13
639	086 SPECDEVCEH-104-2-16
639	087 SPECDEVCEH-104-2-18
639	088 SPECDEVCEH-104-2-20
639	089 SPECDEVCEH-104-2-21
639	090 SPECDEVCEH-104-2-23
639	094 SPECDEVCEH-104-2-24
639	095 SPECDEVCEH-104-2-25
639	096 SPECDEVCEH-104-2-26
639	097 SPECDEVCEH-104-2-30
639	098 SPECDEVCEH-104-2-31
639	099 SPECDEVCEH-104-2-36

AD	REPORT NO.
639	103 SPECDEVCEH-104-2-38
639	104 SPECDEVCEH-104-2-39
639	105 SPECDEVCEH-104-2-47
639	106 NAVTRADEVCEH-104-2-48
639	107 NAVTRADEVCEH-104-2-50
639	142 SPECDEVCEH-131-1-1
639	143 SPECDEVCEH-131-1-2
639	144 SPECDEVCEH-131-1-4
639	256 SPECDEVCEH-57-2-11
639	275 SPECDEVCEH-57-1-1
639	276 SPECDEVCEH-57-1-2
639	277 SPECDEVCEH-57-1-3
639	278 SPECDEVCEH-57-1-4
639	279 SPECDEVCEH-57-1-5
639	280 SPECDEVCEH-166-1-45
639	281 SPECDEVCEH-57-2-1
639	282 SPECDEVCEH-57-2-2
639	283 SPECDEVCEH-57-2-3
639	284 SPECDEVCEH-57-2-4
639	285 SPECDEVCEH-57-2-5
639	286 SPECDEVCEH-166-1-36
639	287 SPECDEVCEH-166-1-37
639	288 SPECDEVCEH-166-1-46
639	290 SPECDEVCEH-166-1-38
639	291 SPECDEVCEH-57-2-6
639	292 SPECDEVCEH-57-2-7
639	293 SPECDEVCEH-57-2-8
639	294 SPECDEVCEH-57-2-9
639	295 SPECDEVCEH-166-1-12
639	296 SPECDEVCEH-166-1-11
639	304 SPECDEVCEH-57-2-13
639	305 SPECDEVCEH-57-2-14
639	306 SPECDEVCEH-166-00-1
639	358 SPECDEVCEH-166-1-MH-C4

AD	REPORT NO.
639 359	SPECDEVCCN-166-1-1MHC-1
639 360	SPECDEVCCN-166-1-MHC-6
639 361	SPECDEVCCN-57-2-12
639 362	SPECDEVCCN-166-00-2
639 363	NAVTRADEVCCN-151-1-15
639 364	SPECDEVCCN-166-1-33
639 365	SPECDEVCCN-166-1-39
639 366	SPECDEVCCN-166-1-19
639 367	SPECDEVCCN-166-1-30
639 368	SPECDEVCCN-166-1-2
639 369	SPECDEVCCN-166-1-8
639 370	SPECDEVCCN-166-1-3
639 371	SPECDEVCCN-166-1-6
639 374	SPECDEVCCN-166-1-7
639 375	SPECDEVCCN-166-1-9
639 376	SPECDEVCCN-166-1-17
639 379	SPECDEVCCN-166-1-27
639 380	SPECDEVCCN-166-1-5
639 381	SPECDEVCCN-166-1-23
639 383	SPECDEVCCN-166-1-25
639 384	SPECDEVCCN-166-1-26
639 385	NAVTRADEVCCN-166-1-29
639 390	SPECDEVCCN-166-1-32
639 391	SPECDEVCCN-166-1-40
639 392	SPECDEVCCN-166-1-44
639 393	SPECDEVCCN-166-1-50
639 394	SPECDEVCCN-166-1-20
639 496	SPECDEVCCN-131-1-5
639 618	SPECDEVCCN-104-2-12
639 627	SPECDEVCCN-166-1-66
639 628	SPECDEVCCN-166-1-71
639 681	SPECDEVCCN-166-1-14
639 682	SPECDEVCCN-166-1-13
639 686	SPECDEVCCN-166-1-18
639 687	SPECDEVCCN-166-1-89

AD	REPORT NO.
639 688	SPECDEVCCN-166-1-90
639 854	SPECDEVCCN-166-1-126
639 855	SPECDEVCCN-166-1-91
639 862	SPECDEVCCN-166-1-56
639 864	SPECDEVCCN-166-1-59
639 865	SPECDEVCCN-166-1-83
639 866	SPECDEVCCN-166-1-86
639 867	SPECDEVCCN-166-1-103
640 040	SPECDEVCCN-241-6-1
640 041	SPECDEVCCN-241-6-4
640 042	SPECDEVCCN-241-6-5
640 059	SPECDEVCCN-166-1-58
640 060	SPECDEVCCN-166-1-68
640 061	SPECDEVCCN-166-1-73
640 071	SPECDEVCCN-166-1-75
640 072	SPECDEVCCN-166-1-76
640 073	SPECDEVCCN-166-1-77
640 075	SPECDEVCCN-166-1-81
640 076	SPECDEVCCN-166-1-80
640 077	SPECDEVCCN-166-1-93
640 079	SPECDEVCCN-166-1-96
640 080	SPECDEVCCN-166-1-119
640 081	SPECDEVCCN-166-1-51
640 082	SPECDEVCCN-166-1-53
640 085	SPECDEVCCN-166-1-67
640 086	SPECDEVCCN-166-1-88
640 087	SPECDEVCCN-166-1-92
640 088	SPECDEVCCN-166-1-97
640 089	SPECDEVCCN-166-1-100
640 090	SPECDEVCCN-166-1-101
640 092	SPECDEVCCN-166-1-102
640 093	SPECDEVCCN-166-1-106
640 094	SPECDEVCCN-166-1-107
640 095	SPECDEVCCN-166-1-108
640 096	SPECDEVCCN-166-1-109

AD	REPORT NO.
640 098	SPECDEVCCN-166-1-111
640 099	SPECDEVCCN-166-1-117
640 131	SPECDEVCCN-166-1-127
640 423	NAVTRADEVCCN-1743-1
640 427	SPECDEVCCN-269-7-1
640 446	SPECDEVCCN-269-7-3
640 450	SPECDEVCCN-269-7-6
640 873	SPECDEVCCN-269-7-28
640 874	SPECDEVCCN-269-7-26
640 875	SPECDEVCCN-269-7-23
640 876	SPECDEVCCN-269-7-21
640 877	SPECDEVCCN-269-7-25
640 878	SPECDEVCCN-269-7-27
640 879	SPECDEVCCN-269-7-24
640 880	SPECDEVCCN-269-7-7
640 881	SPECDEVCCN-269-7-10
640 882	SPECDEVCCN-269-7-13
640 883	SPECDEVCCN-269-7-14
640 884	SPECDEVCCN-269-7-22
640 885	SPECDEVCCN-269-7-8
640 886	SPECDEVCCN-269-7-20
640 925	SPECDEVCCN-166-1-122
641 182	NAVTRADEVCCN-IH-61
641 316	SPECDEVCCN-279-1-109
641 317	SPECDEVCCN-279-1-11
641 318	SPECDEVCCN-279-1-12
641 320	NAVTRADEVCCN-294-2
641 321	NAVTRADEVCCN-294-1
641 446	SPECDEVCCN-279-3-4
641 448	SPECDEVCCN-279-3-5
641 452	SPECDEVCCN-279-3-6
641 453	SPECDEVCCN-279-3-7
641 580	SPECDEVCCN-316-1-3
641 581	SPECDEVCCN-316-1-2
641 582	SPECDEVCCN-316-1-1

AD	REPORT NO.
641 583	SPECDEVCCN-316-1-6
641 584	SPECDEVCCN-316-1-4
641 585	SPECDEVCCN-316-1-5
641 586	SPECDEVCCN-316-1-10
641 587	SPECDEVCCN-316-1-8
641 588	SPECDEVCCN-383-1-6
641 589	SPECDEVCCN-383-1-13
641 590	SPECDEVCCN-383-1-5
641 591	SPECDEVCCN-383-1-9
641 592	SPECDEVCCN-383-1-10
641 593	SPECDEVCCN-383-1-2
641 594	SPECDEVCCN-383-1-4
641 595	SPECDEVCCN-383-1-7
641 596	SPECDEVCCN-383-1-3
641 597	SPECDEVCCN-383-1-2
641 598	SPECDEVCCN-383-1-1
641 599	SPECDEVCCN-383-1-8
641 824	SPECDEVCCN-383-5-3
641 850	SPECDEVCCN-383-6-1
641 879	SPECDEVCCN-383-6-2
641 912	SPECDEVCCN-383-04-1
642 022	SPECDEVCCN-279-3-2
642 023	SPECDEVCCN-279-3-3
642 189	SPECDEVCCN-411-1-4
642 247	SPECDEVCCN-383-5-1
642 311	SPECDEVCCN-411-1-5
642 312	SPECDEVCCN-383-2-1
642 322	NAVTRADEVCCN-1638-2
642 386	SPECDEVCCN-411-1-17
642 387	SPECDEVCCN-411-1-10
642 390	SPECDEVCCN-411-1-7
642 391	SPECDEVCCN-494-01-1
642 396	SPECDEVCCN-476-02-2
642 481	SPECDEVCCN-411-1-14
642 505	SPECDEVCCN-495-01-1

AD	REPORT NO.
642 506	SPECDEVCCN-411-1-11
642 508	SPECDEVCCN-411-1-13
642 509	SPECDEVCCN-411-1-15
642 526	SPECDEVCCN-476-02-3
642 527	SPECDEVCCN-495-01-3
642 586	SPECDEVCCN-495-01-4.1
642 588	SPECDEVCCN-495-01-4.2
642 589	SPECDEVCCN-495-01-4.3
642 590	SPECDEVCCN-495-01-4.5
642 595	SPECDEVCCN-495-07-1
642 596	NAVTRADEVCCN-495-8-1
642 734	SPECDEVCCN-151-1-7
642 735	SPECDEVCCN-151-1-5
642 736	SPECDEVCCN-151-1-6
642 737	SPECDEVCCN-151-1-4
642 738	SPECDEVCCN-641-1-1
642 739	SPECDEVCCN-641-2-1
642 798	SPECDEVCCN-151-1-14
642 799	SPECDEVCCN-641-2-4
642 800	SPECDEVCCN-641-2-3
642 801	SPECDEVCCN-151-1-9
642 865	SPECDEVCCN-641-2-6
643 115	SPECDEVCCN-641-2-11
643 116	SPECDEVCCN-641-2-15
643 117	SPECDEVCCN-641-2-14
643 118	SPECDEVCCN-641-2-9
643 153	SPECDEVCCN-641-2-5
643 154	SPECDEVCCN-641-2-8
643 155	SPECDEVCCN-641-2-10
643 156	SPECDEVCCN-641-3-5
643 172	SPECDEVCCN-641-3-6
643 184	SPECDEVCCN-641-3-8
643 205	SPECDEVCCN-641-3-9
643 405	SPECDEVCCN-938-1-9
643 406	SPECDEVCCN-938-1-1

AD	REPORT NO.
643 407	SPECDEVCCN-938-1-2
643 409	SPECDEVCCN-938-1-4
643 410	SPECDEVCCN-938-1-5
643 411	SPECDEVCCN-938-1-6
643 412	SPECDEVCCN-938-1-7
643 413	SPECDEVCCN-938-1-8
643 414	SPECDEVCCN-938-1-10
643 498	NAVTRADEVCCN-1734-00-1
643 499	SPECDEVCCN-999-1-1
643 654	SPECDEVCCN-1257-1-1
643 655	SPECDEVCCN-954-00-18
643 656	SPECDEVCCN-938-1-3
643 828	SPECDEVCCN-641-2-2
643 829	SPECDEVCCN-641-2-13
643 830	NAVTRADEVCCN-1939-0-4
644 644	SPECDEVCCN-166-1-105
644 706	SPECDEVCCN-166-1-72
644 707	SPECDEVCCN-166-1-98
644 708	SPECDEVCCN-166-1-84
644 933	SPECDEVCCN-166-1-118
645 590	NAVTRADEVCCN-1440-2
646 023	NAVTRADEVCCN-1388-2
646 273	SPECDEVCCN-166-1-41
646 615	SPECDEVCCN-641-3-2
646 708	SPECDEVCCN-1046-00-1
646 774	SPECDEVCCN-1051-00-1
646 812	SPECDEVCCN-166-1-132
647 132	NAVTRADEVCCN-1H-63
647 139	SPECDEVCCN-104-2-22
647 140	SPECDEVCCN-166-1-94
647 202	SPECDEVCCN-411-1-2
647 266	NAVTRADEVCCN-1423-1
647 402	SPECDEVCCN-104-2-19
648 948	NAVTRADEVCCN-1H-62
649 311	NAVTRADEVCCN-1630-2-3

AD	REPORT NO.	AD	REPORT NO.	AD	REPORT NO.
649 331	NAVTRADEVCM-1630-2-1	657 469	SPECDEVCM-104-2-3	660 005	SPECDEVCM-37003-1
649 332	NAVTRADEVCM-1630-2-2	657 470	SPECDEVCM-71-16-6	660 010	SPECDEVCM-166-1-104
649 365	NAVTRADEVCM-1630-3	657 472	SPECDEVCM-71-16-2	660 019	NAVTRADEVCM-1327-4
649 458	NAVTRADEVCM-1630-1	657 473	SPECDEVCM-71-16-7	660 022	SPECDEVCM-166-1-121-1
649 815	NAVTRADEVCM-1494-1	657 474	SPECDEVCM-411-1-18	660 024	SPECDEVCM-37003-3
650 850	NAVTRADEVCM-66-C-0043-1	657 476	SPECDEVCM-166-1-146	660 025	SPECDEVCM-37003-4
651 675	SPECDEVCM-383-1-11	657 477	SPECDEVCM-166-1-1	660 026	SPECDEVCM-37003-5
651 854	NAVTRADEVCM-IH-67	657 478	SPECDEVCM-166-1-28	660 029	SPECDEVCM-383-5-3-SUPPL
653 867	NAVTRADEVCM-IH-74	657 481	SPECDEVCM-151-1-13	660 030	SPECDEVCM-151-1-3
654 264	SPECDEVCM-58-2-6	657 482	SPECDEVCM-151-1-17	660 670	NAVTRADEVCM-IH-129
654 581	SPECDEVCM-999-1-2	657 485	SPECDEVCM-58-1-2	660 680	NAVTRADEVCM-IH-137
654 584	SPECDEVCM-269-7-57	657 515	SPECDEVCM-166-1-35	662 407	NAVTRADEVCM-1824-1
654 585	SPECDEVCM-104-2-8	657 516	SPECDEVCM-166-1-52	662 691	SPECDEVCM-166-1-112
655 107	NAVTRADEVCM-1823-1	657 518	SPECDEVCM-166-1-31	665 932	NAVTRADEVCM-IH-139
655 619	NAVTRADEVCM-IH-71	657 520	SPECDEVCM-166-1-42	667 264	NAVTRADEVCM-1205-6
655 837	NAVTRADEVCM-1889-1	657 521	SPECDEVCM-166-1-48	667 722	NAVTRADEVCM-1753-3
656 630	SPECDEVCM-1042-14	657 522	SPECDEVCM-166-1-49	668 005	NAVTRADEVCM-1753-1
656 631	SPECDEVCM-104-2-11	657 527	SPECDEVCM-166-1-43	668 006	NAVTRADEVCM-1753-2
656 632	SPECDEVCM-641-2-7	657 528	SPECDEVCM-166-1-131	668 015	NAVTRADEVCM-IH-142
656 633	SPECDEVCM-1043-00-2	657 547	SPECDEVCM-166-1-99	669 488	NAVTRADEVCM-1519-1
656 634	SPECDEVCM-279-3-9	657 618	SPECDEVCM-166-1-133	669 671	NAVTRADEVCM-1438-4
657 191	SPECDEVCM-316-1-7	657 620	SPECDEVCM-166-1-120	671 073	NAVTRADEVCM-IH-148
657 192	SPECDEVCM-241-6-3	657 622	SPECDEVCM-166-1-79	671 842	NAVTRADEVCM-67-C-0114-1
657 194	SPECDEVCM-71-16-4	657 623	SPECDEVCM-166-1-60	671 843	NAVTRADEVCM-IH-78
657 367	NAVTRADEVCM-4717-1	657 896	NAVTRADEVCM-IH-72	672 222	NAVTRADEVCM-1555-1
657 369	SPECDEVCM-166-1-144	657 943	SPECDEVCM-411-1-1	672 567	NAVTRADEVCM-IH-143
657 402	SPECDEVCM-131-1-8	657 945	SPECDEVCM-411-1-8	673 444	NAVTRADEVCM-695-2-Vol-1
657 422	SPECDEVCM-411-1-12	657 946	SPECDEVCM-411-1-9	673 445	NAVTRADEVCM-695-2-Vol-2
657 449	SPECDEVCM-151-1-11	657 947	SPECDEVCM-495-01-4.4	673 536	NAVTRADEVCM-531-1
657 459	SPECDEVCM-269-7	658 522	NAVTRADEVCM-IH-43	673 980	NAVTRADEVCM-66-C-0064-1
657 460	SPECDEVCM-316-1-9	658 739	SPECDEVCM-927-00	673 981	NAVTRADEVCM-66-C-0069-2
657 464	SPECDEVCM-370-2-1	659 514	SPECDEVCM-279-3-10	673 982	NAVTRADEVCM-68-C-0108-1
657 465	SPECDEVCM-104-2-2	659 690	SPECDEVCM-166-1-145	674 428	NAVTRADEVCM-67-C-0114-2
657 467	SPECDEVCM-104-2-1	659 691	SPECDEVCM-166-1-124	674 430	NAVTRADEVCM-BULL-40-1A
657 468	SPECDEVCM-104-2-7	660 000	SPECDEVCM-37003	675 503	NAVTRADEVCM-67-C-0095-1

AD	REPORT NO.
675 505	NAVTRADEVCCN-68-C-0107-1
675 506	NAVTRADEVCCN-68-C-0106-1
675 803	NAVTRADEVCCN-67-C-0096-1
675 805	NAVTRADEVCCN-67-C-0034-2
675 806	NAVTRADEVCCN-67-C-0034-3
675 825	NAVTRADEVCCN-67-C-0034-1
676 313	NAVTRADEVCCN-67-C-0202-1
677 476	NAVTRADEVCCN-67-C-0201-1
678 409	NAVTRADEVCCN-68-C-0108-2
678 536	NAVTRADEVCCN-68-C-0136-1
678 651	NAVTRADEVCCN-68-C-0102-2
682 498	NAVTRADEVCCN-66-C-0045-1
684 866	NAVTRADEVCCN-1819-1
686 174	NAVTRADEVCCN-IH-158
694 465	NAVTRADEVCCN-IH-166
697 980	NAVTRADEVCCN-68-C-0071-1
698 792	NAVTRADEVCCN-TN-3
707 757	NAVTRADEVCCN-IH-173
712 096	NAVTRADEVCCN-IH-178
712 773	NAVTRADEVCCN-68-C-0152-1
712 774	NAVTRADEVCCN-68-C-0152-2
713 888	NAVTRADEVCCN-IH-169
714 487	NAVTRADEVCCN-IH-182
714 841	NAVTRADEVCCN-IH-172
721 088	NAVTRADEVCCN-IH-181
722 423	NAVTRADEVCCN-69-C-0278-1
723 182	NAVTRADEVCCN-IH-145
723 562	NAVTRADEVCCN-IH-186
725 466	NAVTRADEVCCN-68-C-0071-2
726 427	NAVTRADEVCCN-69-C-0116-1
726 428	NAVTRADEVCCN-69-C-0140-1
726 430	NAVTRADEVCCN-69-C-0304-1
726 432	NAVTRADEVCCN-70-C-0046-1
727 739	NAVTRADEVCCN-70-C-0059-1
728 429	NAVTRADEVCCN-68-C-0071-3

AD	REPORT NO.
729 029	69C0268-1
731 739	NAVTRADEVCCN-IH-195
732 463	NAVTRADEVCCN-IH-184
732 795	NAVTRADEVCCN-69-C-0322-2
733 471	NAVTRADEVCCN-70-C-0309-1
733 962	NAVTRADEVCCN-70-C-0189-1
733 963	NAVTRADEVCCN-70-C-0249-1
733 964	NAVTRADEVCCN-69-C-0253-1
734 644	NAVTRADEVCCN-69-C-0298-1
735 487	NAVTRADEVCCN-IH-223
736 197	NAVTRADEVCCN-IH-188
736 198	NAVTRADEVCCN-IH-190
736 238	NAVTRADEVCCN-70C-0312-1
736 609	NAVTRADEVCCN-TN-24
736 621	NAVTRADEVCCN-69-C-0156-1
736 926	NAVTRADEVCCN-TN-20
736 932	NAVTRADEVCCN-70-C-0132-1
736 970	70-C-0310-1
737 226	NAVTRADEVCCN-IH-206
737 658	NAVTRADEVCCN-66-C-0147-1
737 659	NAVTRADEVCCN-67-C-0105-1
739 330	NAVTRADEVCCN-TN-10
740 139	NAVTRADEVCCN-1025-4
740 321	NAVTRADEVCCN-68-C-0155-1
740 322	NAVTRADEVCCN-68-C-0155-3
740 409	NAVTRADEVCCN-68-C-0155-2
740 410	NAVTRADEVCCN-69-C-0086-1
740 411	NAVTRADEVCCN-69-C-0086-2
740 785	NAVTRADEVCCN-68-C-0155-4
740 788	NAVTRADEVCCN-70C-0262-2
741 246	NAVTRADEVCCN-IH-202
742 084	NAVTRADEVCCN-IH-189
742 792	NAVTRADEVCCN-TN-34
743 091	NAVTRADEVCCN-IH-205
743 956	NAVTRADEVCCN-TN-29

AD	REPORT NO.
749 951	NAVTRAEQUIPCEN-IH-209
750 248	NAVTRAEQUIPCEN-IH-207
750 249	NAVTRAEQUIPCEN-IH-208
750 250	NAVTRAEQUIPCEN-TN-25
750 694	NAVTRAEQUIPCEN-IH-200
750 695	NAVTRAEQUIPCEN-IH-211
751 023	NAVTRADEVCCN-IH-183
751 024	NAVTRADEVCCN-TN-17
751 556	NAVTRAEQUIPCEN-70-C-0258-1
751 559	NAVTRAEQUIPCEN-IH-213
751 560	NAVTRAEQUIPCEN-TN-26
753 213	NAVTRAEQUIPCEN-IH-199
754 091	NAVTRAEQUIPCEN-IH-198
754 097	NAVTRAEQUIPCEN-TN-36
754 423	NAVTRAEQUIPCEN-IH-203
754 741	NAVTRADEVCCN-IH-75
754 742	NAVTRADEVCCN-IH-81
754 743	NAVTRAEQUIPCEN-70-C-0238-1
754 744	NAVTRAEQUIPCEN-71-C-0031-1
754 795	NAVTRADEVCCN-IH-162
755 722	NAVTRAEQUIPCEN-IH-212L
756 219	NAVTRAEQUIPCEN-71-C-0207-2
756 719	NAVTRAEQUIPCEN-72-C-0030-1
758 004	NAVTRAEQUIPCEN-IH-187
758 363	NAVTRAEQUIPCEN-IH-196
758 637	NAVTRAEQUIPCEN-IH-216
758 638	NAVTRAEQUIPCEN-TN-8
759 366	NAVTRAEQUIPCEN-71-C-0205-1
759 702	NAVTRAEQUIPCEN-IH-218
760 309	NAVTRAEQUIPCEN-1089-1-REV-1
761 181	NAVTRAEQUIPCEN-IH-158-SUPPL
763 642	NAVTRADEVCCN-IH-224
764 028	SPECDEVCCN-166-1-128
764 029	SPECDEVCCN-166-1-134
764 030	SPECDEVCCN-166-1-135

AD	REPORT NO.	AD	REPORT NO.	AD	REPORT NO.
764 031	SPECDEVGEN-166-1-139	779 881	NAVTRAEQUIPCEN-IH-219	854 453L	NAVTRADEVGEN-IH-165
764 032	SPECDEVGEN-166-1-141	780 419	NAVTRAEQUIPCEN-IH-233	854 598	NAVTRADEVGEN-IH-160
764 033	SPECDEVGEN-151-1-18	780 420	NAVTRAEQUIPCEN-IH-234	856 364	NAVTRADEVGEN-1628-12
764 034	SPECDEVGEN-166-1-143	780 421	NAVTRAEQUIPCEN-IH-236	856 365	NAVTRADEVGEN-1628-13
764 035	SPECDEVGEN-269-7-2	781 886	NAVTRAEQUIPCEN-TN-44	856 366	NAVTRADEVGEN-1628-14
764 037	SPECDEVGEN-269-7-5	781 887	NAVTRAEQUIPCEN-IH-235	856 444L	NAVTRADEVGEN-68-C-0308-1
764 038	SPECDEVGEN-269-7-9	782 509	NAVTRAEQUIPCEN-TN-40	856 929	NAVTRADEVGEN-IH-153
764 039	SPECDEVGEN-269-7-15	784 379	NAVTRAEQUIPCEN-73-C-0065-1	856 964	NAVTRADEVGEN-779-1
764 040	SPECDEVGEN-269-7-16	785 248	NAVTRAEQUIPCEN-TN-39	857 295	NAVTRADEVGEN-67-C-0165-2
764 041	SPECDEVGEN-269-7-17	786 778	NAVTRAEQUIPCEN-73-C-0167-2	857 476	NAVTRADEVGEN-1628-15
764 042	SPECDEVGEN-269-7-18	787 594	NAVTRAEQUIPCEN-73-C-0066-1	860 957L	NAVTRADEVGEN-IH-168
764 043	SPECDEVGEN-269-7-34	809 071	NAVTRADEVGEN-IH-58	861 020	NAVTRADEVGEN-IH-26
764 086	NAVTRAEQUIPCEN-71-C-0200-1	812 815	NAVTRADEVGEN-1861-1	862 632	NAVTRADEVGEN-1247-8
764 088	NAVTRAEQUIPCEN-71-C-0194-1	813 382	NAVTRADEVGEN-1329-2	863 027	NAVTRADEVGEN-IH-170
764 334	SPECDEVGEN-166-1-123	816 660	NAVTRADEVGEN-IH-70	864 382	NAVTRADEVGEN-68-C-0153-1
764 901	NAVTRAEQUIPCEN-70-C-0218-1	819 798	SPECDEVGEN-166-1-137	864 994	NAVTRADEVGEN-IH-167
766 466	AS-102-3	820 543	SPECDEVGEN-641-3-4	867 070	NAVTRADEVGEN-69-C-0132-1
766 507	NAVTRAEQUIPCEN-70-C-0306-1	820 544	SPECDEVGEN-954-17	869 851	NAVTRADEVGEN-IH-175
768 734	NAVTRAEQUIPCEN-IH-222	820 545	SPECDEVGEN-641-3-1	869 900	NAVTRADEVGEN-69-C-0179-1
768 756	NAVTRAEQUIPCEN-IH-226	820 546	SPECDEVGEN-641-3-3	870 195	NAVTRADEVGEN-68-C-0050-1
769 117	NAVTRAEQUIPCEN-TN-38	821 792	SPECDEVGEN-166-1-15	870 828	NAVTRADEVGEN-69-C-0178-1
770 619	NAVTRAEQUIPCEN-IH-227	824 425	NAVTRADEVGEN-1860-1	871 261	NAVTRADEVGEN-68-C-0050-2
771 415	NAVTRAEQUIPCEN-71-C-0219-1	835 746	NAVTRADEVGEN-1212-2	871 547	NAVTRADEVGEN-69-C-0152-2
772 593	NAVTRAEQUIPCEN-72-C-0108-1	838 041	NAVTRADEVGEN-66-C-0031-1	871 612	NAVTRADEVGEN-68-C-0271-1
773 947	NAVTRAEQUIPCEN-72-C-0126-1	838 773	NAVTRADEVGEN-IH-151	871 984	NAVTRADEVGEN-68-C-0242-1
774 479	NAVTRAEQUIPCEN-IH-217	840 274	NAVTRADEVGEN-598-1	872 267	NAVTRADEVGEN-68-C-0212-1
774 920	NAVTRAEQUIPCEN-72-C-0209-1	842 370	NAVTRADEVGEN-1329-3	872 854	NAVTRADEVGEN-69-C-0151-1
776 552	NAVTRAEQUIPCEN-IH-215	844 286	NAVTRADEVGEN-IH-154	872 988	NAVTRADEVGEN-TN-11
776 619	NAVTRAEQUIPCEN-72-C-0209-2	844 653	SPECDEVGEN-422-850	873 014	NAVTRADEVGEN-IH-179
777 434	NAVTRAEQUIPCEN-IH-216-SUPPL 1	844 654	SPECDEVGEN-422-900	874 278	NAVTRADEVGEN-69-C-0192-1
778 312	NAVTRAEQUIPCEN-73-C-0079-1	849 175	NAVTRADEVGEN-1119-1	874 638	NAVTRADEVGEN-TN-9
778 349	NAVTRAEQUIPCEN-72-C-0209	849 367	NAVTRADEVGEN-68-C-0013-1	875 911	NAVTRADEVGEN-1329-4
778 665	NAVTRAEQUIPCEN-71-C-0075-1	853 352	NAVTRADEVGEN-IH-150	878 773	NAVTRADEVGEN-69-C-0269-4
779 074	NAVTRAEQUIPCEN-TN-37	853 872	NAVTRADEVGEN-66-C-0077-1	878 836	NAVTRADEVGEN-69-C-0117-1
779 256	NAVTRAEQUIPCEN-IH-230	854 363	NAVTRADEVGEN-IH-161	879 712	NAVTRADEVGEN-69-C-0322-1

AD	REPORT NO.	
880	048	NAVTRADEVCCN-66-C-0019-1
880	341	NAVTRADEVCCN-68-C-0007-1
880	414	NAVTRADEVCCN-69-C-0301-1
880	445	NAVTRADEVCCN-IH-177
880	732	NAVTRADEVCCN-TN-13
881	530	NAVTRADEVCCN-69-C-0781-1
881	976	NAVTRADEVCCN-69-C-0188-1
885	751	NAVTRADEVCCN-66-C-0113-2
888	191L	NAVTRADEVCCN-1754-1
894	317L	NAVTRADEVCCN-69-C-0215-1
894	318L	NAVTRADEVCCN-69-C-0215-2
894	319L	NAVTRADEVCCN-69-C-0215-3
900	341	NAVTRADEVCCN-TN-16
904	984	NAVTRAEQUIPCEN-TN-35
907	481L	NAVTRAEQUIPCEN-IH-192
908	034	NAVTRAEQUIPCEN-70-C-0258-2
910	397L	NAVTRAEQUIPCEN-IH-220
917	494L	NAVTRADEVCCN-P-3695
917	883	NAVTRADEVCCN-0044-4
A000	970	NAVTRAEQUIPCEN-IH-240
A00	276	NAVTRAEQUIPCEN-IH-239
A002	253	NAVTRAEQUIPCEN-TN-41
A002	258	NAVTRAEQUIPCEN-IH-238
A002	704	NAVTRAEQUIPCEN-73-C-0158-1
A002	705	NAVTRAEQUIPCEN-73-C-0065-2
A002	706	NAVTRAEQUIPCEN-IH-237
A003	011	NAVTRAEQUIPCEN-IH-241
A003	945	NAVTRAEQUIPCEN-IH-243
A006	462	NAVTRAEQUIPCEN-TN-42
A006	568	NAVTRAEQUIPCEN-TN-43
A009	361	NAVTRAEQUIPCEN-73-C-0133-1
A009	365	NAVTRAEQUIPCEN-74-C-0065-1
A009	805	NAVTRAEQUIPCEN-73-C-0091-1
A011	377	NAVTRADEVCCN-69-C-0207-1

AD	REPORT NO.	
A011	819	NAVTRAEQUIPCEN-IH-229
A011	846	NAVTRAEQUIPCEN-74-C-0067-1
A012	856	NAVTRAEQUIPCEN-73-C-0145-4
A012	862	NAVTRAEQUIPCEN-73-C-0145-3
A012	944	NAVTRAEQUIPCEN-IH-246
A013	597	NAVTRAEQUIPCEN-IH-197
A014	208	NAVTRAEQUIPCEN-TN-33
A014	213	NAVTRAEQUIPCEN-73-C-0129-1
A014	490	NAVTRAEQUIPCEN-73-C-0128-1
A015	699	NAVTRAEQUIPCEN-73-C-0138-1
A016	586	NAVTRAEQUIPCEN-IH-245
A017	216	NAVTRAEQUIPCEN-IH-255
A019	233	NAVTRAEQUIPCEN-IH-252
A020	588	NAVTRAEQUIPCEN-74-C-0128-1
A020	625	NAVTRAEQUIPCEN-IH-253
A021	418	NAVTRAEQUIPCEN-IH-250
A021	474	NAVTRAEQUIPCEN-74-C-0100-1
A021	514	NAVTRAEQUIPCEN-IH-263
A021	533	NAVTRAEQUIPCEN-IH-264
A021	889	NAVTRAEQUIPCEN-IH-258
A022	291	NAVTRAEQUIPCEN-74-C-0081-6
A023	546	NAVTRAEQUIPCEN-75-C-0093-1
A023	594	NAVTRAEQUIPCEN-75-C-0104-4
A024	345	NAVTRAEQUIPCEN-75-C-0134-1
A024	517	NAVTRAEQUIPCEN-74-C-0063-1
A024	526	NAVTRAEQUIPCEN-IH-257
A024	732	NAVTRAEQUIPCEN-76-C-0007-1
A024	836	NAVTRAEQUIPCEN-IH-261
A024	903	NAVTRAEQUIPCEN-74-C-0056-1
A025	179	NAVTRAEQUIPCEN-IH-158-SUPPL-2
A026	281	NAVTRAEQUIPCEN-IH-254
A026	747	NAVTRAEQUIPCEN-TN-38
A027	096	NAVTRAEQUIPCEN-IH-231
A027	503	NAVTRAEQUIPCEN-TN-52

AD	REPORT NO.	
A027	691	NAVTRAEQUIPCEN-74-C-0079-2
A027	701	NAVTRAEQUIPCEN-74-C-0095-1
A028	385	NAVTRAEQUIPCEN-IH-248
A028	722	NAVTRAEQUIPCEN-IH-269
A028	836	NAVTRAEQUIPCEN-74-C-0079-1
A028	885	NAVTRAEQUIPCEN-IH-275
A030	706	NAVTRAEQUIPCEN-IH-242
A031	281	NAVTRAEQUIPCEN-TN-47
A031	447	NAVTRAEQUIPCEN-IH-276
A031	451	NAVTRAEQUIPCEN-76-C-0017-1
A032	455	NAVTRAEQUIPCEN-IH-259
A032	576	NAVTRAEQUIPCEN-IH-249
A032	679	NAVTRAEQUIPCEN-IH-267
A032	771	NAVTRAEQUIPCEN-IH-260
A033	327	NAVTRAEQUIPCEN-74-C-0048-1
A035	616	NAVTRAEQUIPCEN-75-C-0100-1
A035	999	NAVTRAEQUIPCEN-74-C-0152-1
A036	150	NAVTRAEQUIPCEN-TN-55
A036	264	NAVTRAEQUIPCEN-75-C-0101-1
A037	223	NAVTRAEQUIPCEN-75-C-0009-1
A037	468	NAVTRAEQUIPCEN-75-C-0099-1
A037	536	NAVTRAEQUIPCEN-75-C-0076-1
A037	549	NAVTRAEQUIPCEN-IH-278
A037	839	NAVTRAEQUIPCEN-TN-56
A038	456	NAVTRAEQUIPCEN-IH-265
A040	288	NAVTRAEQUIPCEN-IH-251
A042	092	NAVTRAEQUIPCEN-IH-282
A042	120	NAVTRAEQUIPCEN-IH-284
A042	430	NAVTRAEQUIPCEN-IH-283
A043	181	NAVTRAEQUIPCEN-IH-285
A043	578	NAVTRAEQUIPCEN-IH-262
A046	698	NAVTRAEQUIPCEN-75-C-0057-1
A046	699	NAVTRAEQUIPCEN-75-C-0009
A046	853	NAVTRAEQUIPCEN-IH-286

AD	REPORT NO.	AD	REPORT NO.
A047 905	NAVTRAEQUIPCEN-IH-294	A064 312	NAVTRAEQUIPCEN IH-305
A047 919	NAVTRAEQUIPCEN-76-C-0034-1	A064 332	NAVTRAEQUIPCEN 77-C-0065-1
A047 920	NAVTRAEQUIPCEN-IH-293	A064 339	NAVTRAEQUIPCEN 77-C-0109-1
A048 498	NAVTRAEQUIPCEN-74-C-0141-1	A065 000	NAVTRAEQUIPCEN 76-C-0048-1
A048 796	NAVTRAEQUIPCEN-77M-1058-1	A065 573	NAVTRAEQUIPCEN 76-C-0096-1
B010 084L	NAVTRAEQUIPCEN-TN-46	A065 573	NAVTRAEQUIPCEN 76-C-0096-1
B015 707	NAVTRAEQUIPCEN-TN-53	A066 222	NAVTRAEQUIPCEN IH-308
B016 448L	NAVTRAEQUIPCEN-TN-51	A066 324	NAVTRAEQUIPCEN IH-309
B019 111L	NAVTRAEQUIPCEN-TN-57	A069 036	NAVTRAEQUIPCEN 77-C-0162-2
B024 079L	NAVTRAEQUIPCEN-IH-288	A069 056	NAVTRAEQUIPCEN 77-C-0162-1
B024 629	NAVTRAEQUIPCEN 77-C-0169-1	A069 060	NAVTRAEQUIPCEN 78-C-0053-1
A049 680	NAVTRAEQUIPCEN 74-C-0048-2	A069 177	NAVTRAEQUIPCEN 77-C-0069-1
A049 973	NAVTRAEQUIPCEN IH-287	A069 890	NAVTRAEQUIPCEN IH-311
A050 314	NAVTRAEQUIPCEN IH-268	A070 780	NAVTRAEQUIPCEN TN-60
A052 631	NAVTRAEQUIPCEN 77-M-0575	A074 833	NAVTRAEQUIPCEN 78-C-0141-1
A053 179	NAVTRAEQUIPCEN 75-C-0095-1	A076 236	NAVTRAEQUIPCEN 78-C-0107-1
A053 472	NAVTRAEQUIPCEN IH-295	A079 902	NAVTRAEQUIPCEN 78-C-0085-1
A055 422	NAVTRAEQUIPCEN IH-300	A080 428	NAVTRAEQUIPCEN 78-C-0045-1
A055 788	NAVTRAEQUIPCEN 77-C-0009-1	A084 678	NAVTRAEQUIPCEN 78-C-0129-1
A056 230	NAVTRAEQUIPCEN 75-C-0105-1	A082 310	NAVTRAEQUIPCEN IH-320
A056 231	NAVTRAEQUIPCEN 77-C-0096-1	A080 428	NAVTRAEQUIPCEN 78-C-0045-1
A056 336	NAVTRAEQUIPCEN IH-301	A076 236	NAVTRAEQUIPCEN 78-C-0107-1
A056 720	NAVTRAEQUIPCEN IH-297	A084 678	NAVTRAEQUIPCEN 78-C-0129-1
A057 216	NAVTRAEQUIPCEN IH-303	A074 833	NAVTRAEQUIPCEN 78-C-0141-1
A058 302	NAVTRAEQUIPCEN IH-302	A080 735	NAVTRAEQUIPCEN 78-C-0157-1
A058 793	NAVTRAEQUIPCEN 76-C-0055-1	A079 902	NAVTRAEQUIPCEN 79-C-0085-1
A060 028	NAVTRAEQUIPCEN 77-C-0005-1	A102 028	NAVTRAEQUIPCEN IH-321
A060 450	NAVTRAEQUIPCEN IH-304	A103 376	NAVTRAEQUIPCEN IH-327
A061 245	NAVTRAEQUIPCEN 77-C-0616-1	A107 098	NAVTRAEQUIPCEN 77-C-0106-2
A061 321	NAVTRAEQUIPCEN IH-306	A086 633	NAVTRAEQUIPCEN 78-C-0000-3
A061 667	NAVTRAEQUIPCEN IH-296	A108 490	NAVTRAEQUIPCEN 78-C-0000-6
A062 732	NAVTRAEQUIPCEN 76-C-0004-2		

AD REPORT NO.

A061 098 NAVTRAEQUIPCEN 78-C-0064
A107 342 NAVTRAEQUIPCEN 78-C-0136-1
A107 003 NAVTRAEQUIPCEN 78-C-0136-3
A095 730 NAVTRAEQUIPCEN 78-C-0151-1
A107 061 NAVTRAEQUIPCEN 78-C-0182-1
A107 000 NAVTRAEQUIPCEN 78-C-0182-3
A106 726 NAVTRAEQUIPCEN 78-C-0182-5
A106 999 NAVTRAEQUIPCEN 78-C-0182-10
A107 940 NAVTRAEQUIPCEN 79-C-0096-1
A096 864 NAVTRAEQUIPCEN 79-C-0101-2
A106 224 NAVTRAEQUIPCEN 79-D-0105-1
A107 911 NAVTRAEQUIPCEN 80-C-0008-1
A099 885 NAVTRAEQUIPCEN 80-C-0055-1
A053 204 NAVTRAEQUIPCEN IH-317
A102 028 NAVTRAEQUIPCEN IH-318
A087 012 NAVTRAEQUIPCEN IH-319
A082 310 NAVTRAEQUIPCEN IH-320
A092 193 NAVTRAEQUIPCEN IH-322
A095 106 NAVTRAEQUIPCEN IH-325
A087 190 NAVTRAEQUIPCEN 77-C-0162-2
A091 930 NAVTRAEQUIPCEN 77-C-0162-4
A091 841 NAVTRAEQUIPCEN 77-C-0162-5
A092 719 NAVTRAEQUIPCEN 77-C-0162-6
A087 516 NAVTRAEQUIPCEN 77-D-0022-1
A092 561 NAVTRAEQUIPCEN 78-C-0070-1
A091 912 NAVTRAEQUIPCEN 79-C-0042-1
A097 742 NAVTRAEQUIPCEN 86-C-0130-4200-1
A096 625 NAVTRAEQUIPCEN 79-C-0122-1

UNCLASSIFIED
SUBJECT INDEX

- *ACCELERATION TOLERANCE
PILOTS
A BIBLIOGRAPHIC EVALUATION OF
THE EFFECTS OF ACCELERATION ON THE
CONTROL AND SAFETY OF HIGH SPEED
AIRCRAFT.
AD- 642 801
- *ACOUSTIC SIGNALS
AN INVESTIGATION OF MONAURAL AND
BINAURAL AUDITORY DISCRIMINATION IN
NOISE
AD- 125 185
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517
- *ACOUSTIC WARFARE
The Feasibility of Generalized
Acoustic Sensor Operator Training.
AD-A011 848
- *ACOUSTICS
AN INVESTIGATION OF MONAURAL AND
BINAURAL AUDITORY DISCRIMINATION IN
NOISE
AD- 125 185
- *ADAPTIVE CONTROL SYSTEMS
Adaptive Training of Manual
Control: Performance Measurement
Intervals and Task Characteristics.
AD-A019 233
- HUMAN FACTORS ENGINEERING
Adaptive Training of Manual
Control: Relation of Adaptive
Scheme Parameters to Task
Parameters.
AD- 764 901
- *ADAPTIVE TRAINING
Feasibility of Automated
Adaptive GCA (Ground Controlled
Approach) Controller Training
System.
AD- 778 312
A Guide for the Application of
Performance-Structure Oriented CAI
in Naval Training: A Working
Paper.
- AD- 784 379
Research on High-Level Adaptive
Training Systems.
AD-A022 291
Training Characteristics of the
Automated Adaptive Ground
Controlled Approach Radar
Controller Training System (GCA-
CTS).
AD-A027 503
Optimization Techniques for
Automated Adaptive Training
Systems.
AD-A052 631
Speech Understanding in Air
Intercept Controller Training
System Design.
AD-A068 612
Landing Signal Officer (LSO)
Laboratory System Software.
AD-A095 730
Ordinal Syllabus for Air
Intercept Controller Prototype
Training System.
AD-A107 000
- *AERIAL CAMERAS
SHORT DESCRIPTION OF THE
VERTICAL INDICATING SYSTEMS
AD- 036 713
VERTICAL REFERENCE SYSTEM -
METHOD I.
AD- 073 740
- *AERIAL GUNNERS
NAVAL TRAINING
STUDY OF BASIC FIXED GUNNERY,
AD- 841 824
- *AERIAL GUNNERY
Laser Air-to-Air Gunnery
Trainer. I. Introduction of a
Semiconductor Laser System
Providing Gunnery Training Without
Need for an Operational Weapon and
Ammunition.
AD- 779 258
NAVAL TRAINING
STUDY OF BASIC FIXED GUNNERY,
AD- 841 824
- RANGES(FACILITIES)
Report on Results of Concept
Formulation Activities for an Armed
Aircraft Qualification Range
Scoring System.
AD- 870 828
- TRAINING
STUDIES OF NAVAL AIR BASIC
TRAINING: FIXED GUNNERY PHASE.
AD- 860 029
- TRAINING DEVICES
AN EXPERIMENTAL STUDY OF THE
EFFECTIVENESS OF VARIOUS TRAINING
PROCEDURES USED WITH THE AERIAL
GUNNERY TRAINING DEVICES 3-A-35 AND
3-A-2.
AD- 839 275
- *AERIAL PHOTOGRAPHY
SHORT DESCRIPTION OF THE
VERTICAL INDICATING SYSTEMS
AD- 036 713
VERTICAL REFERENCE SYSTEM -
METHOD I.
AD- 073 740
A VERTICAL REFERENCE SYSTEM.
METHOD II
AD- 074 026
- *AERIAL RECONNAISSANCE
GENERAL THEORY OF A PULSED
DOPPLER RADAR SYSTEM
AD- 081 887
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE OBSERVATION TRAINING
AD- 233 913
- MAPS
Chart Interpretation in Low-
Altitude Flight.
AD- 788 488
- MILITARY TRAINING
PROCEEDINGS OF CONFERENCE ON
PROBLEMS IN RADAR SIMULATION FOR
TRAINING AND BRIEFING, 23 AND 24
MAY 1981
AD- 339 818

SUBJECT INDEX-1
UNCLASSIFIED FQP40C

UNCLASSIFIED

- *AERIAL RUDDERS
HUMAN FACTORS ENGINEERING
THE HUMAN FACTOR IN THE DESIGN
OF STICK AND RUDDER CONTROLS FOR
AIRCRAFT.
AD- 639 028
- *AERIAL TARGETS
ACO PERFORMANCE AS A FUNCTION OF
NUMBER OF SIMULTANEOUS RAIDS AND
TIME AVAILABLE FOR INTERCEPTION
AD- 043 900
THE DESIGN AND EVALUATION OF TWO
INTERCEPT COURSE COMPUTERS
AD- 065 249
- *AERIAL WARFARE
Air Combat Maneuvering
Performance Measurement.
AD-A077 429
- *AERODYNAMICS
EQUATIONS
OPTIMIZATION OF AERODYNAMIC
EQUATIONS.
AD- 630 268
- *AERONAUTICS
MILITARY TRAINING
SOURCE BOOK ON THE APPLICATION
OF RESEARCH TO GROUND TRAINING IN
AVIATION.
AD- 651 675
- *AFTERIMAGES
VISUAL PERSISTENCE DECAY CURVES
AS FA FUNCTION OF INTENSITY AND
DURATION OF THE STIMULUS
AD- 284 977
CATHODE RAY TUBE SCREENS
THE PURKINJE AFTER-IMAGE ON
SCREENS OF CATHODE-RAY TUBES.
AD- 492 701
VISION
VISUAL AFTER-IMAGES AS A SOURCE
OF INFORMATION.
AD- 603 546
- *AGING(PHYSIOLOGY)

- VISION
RELATIONSHIPS BETWEEN AGE,
VISUAL ACUITY AND COLOR VISION,
AD- 639 867
- *AIR CONTROL CENTERS
HUMAN FACTORS ENGINEERING
LAYOUT, COMMUNICATION AND
SEATING IN THE AIR CONTROL CENTER
OF THE MIGRAINE III TYPE SUBMARINE.
AD- 643 117
HUMAN ENGINEERING APPRAISAL OF
THE AIR CONTROL CENTER OF PICKET
SUBMARINES.
AD- 643 155
- *AIR CUSHION VEHICLES
Mathematical Model of an Air
Cushion Vehicle.
AD-A015 699
Simulation of an Air Cushion
Vehicle.
AD-A046 698
- *AIR FORCE TRAINING
Air Combat Maneuvering
Performance Measurement.
AD-A077 429
- *AIR POLLUTION
COMBUSTION PRODUCTS
Analysis of Stack Gases for
Natural and Treated Fuel-Oil Fires.
AD- 881 530
- *AIR POLLUTION CONTROL EQUIPMENT
Development of Smoke Abated
Aircraft Crash/Rescue Fire Fighting
Trainer.
AD-A035 999
- *AIR TO AIR MISSILES
JET FIGHTERS
Human Engineering Aspects of the
Utilization of the Sparrow Guided
Missile System in Fighter Aircraft.
AD- 764 334
- *AIR TRAFFIC CONTROL SYSTEMS
TWO SIMULATORS FOR TRAINING
PILOTS AND CONTROLLERS IN AIR

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Training Device Center and Industry
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Training Effectiveness
Evaluation of Naval Training
Devices. Part I A Study of the
Effectiveness of a Carrier Air
Traffic Control Center Training
Device.
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- *AIR TRAFFIC CONTROLLERS
THE EFFECT OF NUMBER OF SEARCH
OPERATORS, REPORTING PROCEDURES AND
LOAD ON THE PERFORMANCE OF AN
AIRBORNE CIC SYSTEM
AD- 043 899
THE EFFECT OF NUMBER OF AIR
CONTROLLERS ON THE AIR INTERCEPT
CONTROL PERFORMANCE OF THE AIRBORNE
CIC
AD- 065 246
THE STUDY OF THE EFFECTS OF
VARYING LOADS OF AIRCRAFT PIPS AND
PIP SPEEDS UPON VECTORING
PERFORMANCE IN AIR TRAFFIC CONTROL
AD- 090 614
Training Characteristics of the
Automated Adaptive Ground
Controlled Approach Radar
Controller Training System (GCA-
CTS).
AD-A027 503
Air Intercept Controller
Training: A Preliminary Review.
AD-A048 796
Speech Understanding in Air
Intercept Controller Training
System Design.
AD-A068 612
Ground Controlled Approach
Controller Training System.
AD-A069 036
Ground Controlled Approach
Controller Training System

SUBJECT INDEX-2
UNCLASSIFIED FQP40C

AER-AIR

UNCLASSIFIED

Instructor Guide.
AD-A091 846
Ground Controlled Approach
Controller Training System (GCA-
CTS) Student Guide.
AD-A091 930
Prototype Equipment Student
Guide for ACE (Air Intercept
Controller Prototype Training
System).
AD-A106 999
Ordinal Syllabus for Air
Intercept Controller Prototype
Training System.
AD-A107 000

*AIRBORNE
LOW ALTITUDE FLYING: AN ANALYSIS
AD- 159 829

*AIRCRAFT
Cylindrical Holograms for Target
Recognition Training.
AD-A042 430
A Relative Performance Analysis
of Selected Computers for Real-Time
Trainers (Preliminary Report).
AD-B053 204L

MANEUVERABILITY
A METHOD OF INCREASING THE
MANEUVERABILITY OF HIGH SPEED
AIRCRAFT WITHIN THE LIMITS OF HUMAN
TOLERANCE TO G FORCES.
AD- 657 449

PERFORMANCE(HUMAN)
THE EFFECT OF HEAT UPON THE
PERFORMANCE OF MEN IN HIGH SPEED
AIRCRAFT: A CRITICAL REVIEW,
AD- 657 482

TARGET
AN EVALUATION OF VARIOUS
TACHISTOSCOPIC AND WEFT TECHNIQUES
IN AIRCRAFT RECOGNITION.
AD- 626 468

*AIRCRAFT CARRIERS
COMBAT INFORMATION CENTERS
THE ARRANGEMENT OF CIC EQUIPMENT

ON A CVL. (SHIPBOARD SYSTEMS
STUDIES).
AD- 646 815

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MAINTENANCE
Analysis and Evaluation of Navy
Avionics Manuals.
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Analysis Device 2F112, F-14 Weapon
System Trainer.
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AN EXPERIMENTAL EVALUATION OF
THREE AEW-INTERCEPT SYSTEMS IN THE
AIRBORNE CIC
AD- 081 025
Air Intercept Controller
Training: A Preliminary Review.
AD-A048 796
A Laboratory System for Air
Intercept Controller Training.
AD-A069 060
Prototype Equipment Student
Guide for ACE (Air Intercept
Controller Prototype Training
System).
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Ordinal Syllabus for Air
Intercept Controller Prototype
Training System.
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*AIRCRAFT INTERCEPTION
Behavioral Objectives for Air
Intercept Controller Prototype
Training System.
AD-A107 001
Functional Requirement for Air
Intercept Controller Prototype
Training System.
AD-A114 318

*AIRCRAFT LANDINGS
Descent-Rate Cuing for Carrier
Landings: Effects of Display Gain,
Display Noise and Aircraft Type.
AD-A108 801

WARNING SYSTEMS
VISUAL REQUIREMENTS FOR A WHEELS-
UP WARNING SIGNAL DEVICE ON
AIRCRAFT.
AD- 642 865

*AIRCRAFT MAINTENANCE
Aircraft Maintenance
Effectiveness Simulation (AMES)
model.
AD-A087 513

*AIRCRAFT NOISE
INTELLIGIBILITY TESTING IN THREE
CONDITIONS INVOLVING MASKING NOISE
AD- 111 557

*AIRPLANE LANDINGS
IMPROVING LANDING PERFORMANCE
USING A CONTACT LANDING TRAINER
AD- 121 200

*AIRSHIPS
DESIGN
HUMAN FACTORS IN THE DESIGN OF
AIRSHIPS.
AD- 643 118

*AIR-TO-SURFACE
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE OBSERVATION TRAINING
AD- 233 913

*ALGORITHMS
Multiple Microcomputer Control
Algorithm.
AD-A080 735
Multiple Microcomputer Control
Algorithm Feasibility Breadboard.
AD-A107 840

*ALTITUDE CHAMBERS
INSTRUMENTATION
BIO-INSTRUMENTATION FOR CONTROL

SUBJECT INDEX-3
UNCLASSIFIED FQP40C

AIR-ALT

UNCLASSIFIED

- OF PRESSURE CHAMBERS.
AD- 607 741
- *AMPHIBIOUS OPERATIONS
TRAINING DEVICES
EXPLOSIVES SIMULATION DEVICE
(X3H14)
AD- 672 222
- *AMPUTEES
ADJUSTMENT (PSYCHOLOGY)
REPORT OF INTENSIVE
INVESTIGATIONS OF THE PERSONALITY
CHARACTERISTICS OF FORTY EIGHT
ABOVE-THE-KNEE AMPUTEES.
AD- 641 317
PROBLEMS IN THE FITTING AND
SERVICING OF PROSTHETIC DEVICES FOR
ABOVE-THE-KNEE AMPUTEES.
AD- 641 318
- *ANALOG COMPUTERS
TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY
AD- 230 996
- *ANALOG SYSTEMS
ANALOG DIGITAL COMPUTERS FOR
REAL-TIME SIMULATION
AD- 275 649
- *ANALOG DIGITAL COMPUTERS
RADAR TRAINERS
INVESTIGATION OF COMPUTER
TECHNIQUES FOR RADAR LANDMASS
SIMULATION.
AD- 631 592
- *ANTENNA SIMULATORS
RADAR TRAINERS
TGS-1 ANTENNA SIMULATOR, MOD. 1.
AD- 640 073
- *ANTHROPOMETRY
ANTHROPOMETRY OF ONE HANDED
MAINTENANCE ACTIONS
AD- 241 408
- *ANTIAIRCRAFT DEFENSE SYSTEMS
ELECTRONIC DISPLAY EQUIPMENT
(EDE)
- AD- 060 459
NAVAL TRAINING
PROCEDURES AND RESEARCH PLANNING
FOR ANTI-AIR WARFARE TRAINING
PROGRAM. SUPPLEMENT
AD- 354 390
PROCEDURES AND RESEARCH PLANNING
FOR ANTI-AIR WARFARE TRAINING
PROGRAM.
AD- 447 537
OPERATIONS RESEARCH
SYSTEMS ANALYSIS OF AAW TRAINING
REQUIREMENTS.
AD- 625 378
- *ANTIAIRCRAFT FIRE CONTROL SYSTEMS
TRAINING DEVICES
LIGHT ANTIAIRCRAFT TRACER
OBSERVATION AND FIRE CONTROL WITH
SPECIFIC REFERENCE TO THE TRAINING
PROBLEM.
AD- 642 527
- *ANTIAIRCRAFT GUNNERY
ARMY TRAINING
TRAINING FOR ANTIAIRCRAFT
ARTILLERY GUNNERY.
AD- 642 505
DECISION MAKING
BEHAVIORAL AND OPERATIONAL
ASPECTS OF TACTICAL DECISION MAKING
IN AAW AID ASW.
AD- 354 872
MILITARY TRAINING
TRAINING 90 MM AA GUN CREWS.
APPENDIX I. HISTORY OF THE
PROJECT.
AD- 642 586
TRAINING 90 MM AA GUN CREWS.
APPENDIX II. STATISTICAL ANALYSIS.
AD- 642 588
TRAINING 90 MM AA GUN CREWS.
APPENDIX III. A RECOMMENDED PROGRAM
FOR ADVANCED INDIVIDUAL TRAINING IN
ANTIAIRCRAFT ARTILLERY.
AD- 642 589
TRAINING 90 MM GUN CREWS.
- APPENDIX V. FOLLOW-UP STUDY OF
RECOMMENDED PROCEDURES AND TRAINING
AIDS.
AD- 642 590
TRAINING DEVICES
LIGHT ANTIAIRCRAFT TRACER
OBSERVATION AND FIRE CONTROL WITH
SPECIFIC REFERENCE TO THE TRAINING
PROBLEM.
AD- 642 527
TRAINING 90 MM AA GUN CREWS.
APPENDIX IV. TRAINING AIDS AND
DEVICES.
AD- 657 947
- *ANTISUBMARINE AIRCRAFT
COMMUNICATION SYSTEMS
COMMUNICATIONS AS A MEASURABLE
INDEX OF TEAM BEHAVIOR.
AD- 623 135
FLIGHT SIMULATORS
INCREASING ASW HELICOPTER
EFFECTIVENESS THROUGH
COMMUNICATIONS TRAINING.
AD- 682 498
HUMAN FACTORS ENGINEERING
HUMAN FACTORS IN THE DESIGN AND
OPERATION OF AN ANTI-SUBMARINE
AIRPLANE: PHASE III. HUMAN
ENGINEERING RECOMMENDATIONS
AD- 042 774
HUMAN FACTORS IN THE DESIGN AND
OPERATION OF AN ANTI-SUBMARINE
AIRPLANE: PHASE I. SYSTEM ANALYSIS
AD- 042 775
OPERATORS (PERSONNEL)
Development of a Method for
Deriving Required Training
Aids/Devices and Application to the

SUBJECT INDEX-4
UNCLASSIFIED FQP40C

AMP-ANT

UNCLASSIFIED

Tactical Coordinator Position in
ASW Aircraft.
AD- 872 267

SIMULATION
Aspect Simulation Design Report
(Phase III) for ASW Aircraft.
AD- 917 883

TRAINING DEVICES
Training Effectiveness
Evaluation of Naval Training
Devices. Part II. A Study of
Device 2F66A (S-2E Trainer)
Effectiveness.
AD- 732 795

*ANTISUBMARINE WARFARE
PROJECT THUNDERHEAD - AN
ECONOMIC STUDY OF SOME COMPETITIVE
ANTI-SUBMARINE SYSTEMS
AD- 049 245
INSTRUCTOR'S GUIDE FOR THE
OPERATION OF THE UNDERSEA WARFARE
TACTICAL TRAINER (DEVICE RS-8A)
AD- 301 788
A Magnetic-Anomaly Simulator for
Training.
AD-A024 345
A Technique for Shipboard Sonar
Echo Simulation for Training.
AD-A027 096

DECISION MAKING
BEHAVIORAL AND OPERATIONAL
ASPECTS OF TACTICAL DECISION MAKING
IN AAW AND ASW.
AD- 354 872

NAVAL TRAINING
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 348 987

NAVAL VESSELS
SHIPBOARD SYSTEMS STUDIES.
AD- 820 545

OFFICER PERSONNEL
Advanced Officer Tactics
Training Device Needs and

Performance Measurement Technique.
Volume I.
AD- 922 929

SUBMARINE SIMULATORS
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE.

AD- 345 673
Preliminary Study Report of a
Wake Generating System for the ASW
Submarine Target Device 21B12,
Miniaturized.
AD- 888 191L

SUBMARINES
ARRANGEMENT OF EQUIPMENT ON THE
SSK CONVERSION.
AD- 843 153

TRAINING DEVICES
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 348 981
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 350 847
Study, Feasibility and Criteria
for an Air ASW Tactical Trainer
Complex.
AD- 529 337L
STUDY OF WAKE GENERATING SYSTEM
FOR AN ASW TRAINING DEVICE.
AD- 815 907

*ANTITANK AMMUNITION
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226

*ANXIETY
SELECTED ABSTRACTS FROM THE
LITERATURE ON STRESS
AD- 253 088

*APPLIED PSYCHOLOGY
PILOTS
An Investigation of Visual,
Aural, Motion and Control Movement

Cues.
AD- 728 430

*APPROACH
Evaluation of an Automated
Flight Training System: Ground
Controlled Approach Module (GCAM).
AD-A021 533

*APTITUDE TESTS
The Prediction of Performance in
Navy Signalman Class 'A' School.
AD-A090 286

*AQUATIC ANIMALS
MARINE BIOLOGICAL NOISE
MARINE ANIMAL DATA ATLAS.
AD- 835 748

*ARMY TRAINING
PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 672 567

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 383

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume I. Problem Analysis.
AD-A091 422

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume II. Requirements.
AD-A091 423

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume III. Visual.
AD-A091 424

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device

SUBJECT INDEX-B
UNCLASSIFIED FQP40C

ANT-ARM

UNCLASSIFIED

X17B7). Volume IV. Motion.
AD-A091 425
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X17B7). Volume V. Vehicle.
AD-A091 426
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X17B7). Volume VI. Training
Systems.
AD-A091 427
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X17B7). Volume VII. Conclusions.
AD-A091 428

ANTIAIRCRAFT GUNNERY
TRAINING FOR ANTIAIRCRAFT
ARTILLERY GUNNERY.
AD- 642 505

HELICOPTERS
CONCEPT FORMULATION REPORT:
SYNTHETIC FLIGHT TRAINING SYSTEM.
AD- 675 505
SYNTHETIC FLIGHT TRAINING SYSTEM
(SFTS) CONCEPT FORMULATION REPORT.
AD- 675 506

MILITARY PERSONNEL
CBR TRAINING AID REQUIREMENTS,
ARMY WIDE.
AD- 643 654

SITE SELECTION
A SURVEY OF EUROPEAN TRAINING
DEVICES.
AD- 630 246

TARGET RECOGNITION
COMBAT RECOGNITION REQUIREMENTS.
AD- 641 850

*ARMY TRAINING
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.

AD- 737 228

*ARTIFICIAL LIMBS
DESIGN
REPORT OF THE QUESTIONNAIRE
STUDY OF 69 LIMB MAKERS AND LIMB
FITTERS.
AD- 641 318
PROBLEMS IN THE FITTING AND
SERVICING OF PROSTHETIC DEVICES FOR
ABOVE-THE-KNEE AMPUTEES.
AD- 641 318
INVESTIGATIONS WITH RESPECT TO
THE DESIGN, CONSTRUCTION, AND
EVALUATION OF PROSTHETIC DEVICES.
VOL. I.
AD- 641 319

*ASSESSMENT
Guidelines for Implementing
Training Effectiveness Evaluations.
AD- 778 349

*ATMOSPHERE ENTRY
SIX-DEGREE-OF-FREEDOM EQUATIONS
OF MOTION FOR A MANEUVERING RE-
ENTRY VEHICLE
AD- 283 911

*ATTACK AIRCRAFT
Program Procedures Report A-7E
aircraft Weapon System Trainer
(Flight), Device 2F84B.
AD-A950 828

*ATTACK BOMBERS
A7E Transfer of Training
Effectiveness: Device 2C15A CPT
and Device 2F84B OFT/WJT.
AD-A027 891
A-8E Systems Approach to
Training. Phase I.
AD-A037 468

*ATTENTION
ALERTNESS INDICATOR
AD- 139 810

CONTROL
PREDICTION AND AUTOMATIC CONTROL
OF ALERTNESS. I. CONTROL OF

LOOKOUT ALERTNESS.
AD- 639 041

MONITORS
REVIEW OF LITERATURE AND SOME
PRELIMINARY RESULTS IN THE
DEVELOPMENT OF AN ALERTNESS
INDICATOR.
AD- 639 040
LABORATORY AND ROAD TESTS OF THE
PORTABLE ALERTNESS INDICATOR.
AD- 639 043
PREDICTION AND CONTROL OF
ALERTNESS. III. CALIBRATION OF
THE ALERTNESS INDICATOR AND FURTHER
RESULTS.
AD- 639 044
APPLICATION OF ELECTRO-
PHYSIOLOGICAL TECHNIQUES TO HUMAN
PERFORMANCE: THE READING ASSESSOR -
THE ALERTNESS INDICATOR.
AD- 639 045

PERFORMANCE(HUMAN)
EFFECTS OF SIGNAL PATTERNING
UPON VIGILANCE PERFORMANCE AND
PHYSIOLOGICAL RESPONSES,
AD- 648 948
PREDICTION AND CONTROL OF
ALERTNESS. II. CONTINUOUS
TRACKING,
AD- 654 264
VIGILANCE PERFORMANCE AND
PHYSIOLOGICAL RESPONSES UNDER FIXED
AND VARIABLE SIGNAL SCHEDULES.
AD- 655 819

PSYCHOLOGICAL TESTS
REACTION TIME AS A MEASURE OF
SPAN OF ATTENTION,
AD- 657 518

SIGNALS
The Effect of Attention Gaining
Devices of Film-Mediated Learning
(Rapid Mass Learning).
AD- 784 038

*ATTITUDE INDICATORS
RELATIVE MOTION. III. SOME
RELATIVE MOTION PROBLEMS IN

SUBJECT INDEX-6
UNCLASSIFIED FQP40C

ARM-ATT

UNCLASSIFIED

AVIATION
AD- 256 346

*ATTITUDES(PSYCHOLOGY)
THE RELATIVE EFFECTIVENESS OF
SEVERAL FILM VARIABLES IN MODIFYING
ATTITUDES: A STUDY OF THE
APPLICATION OF FILMS FOR
INFLUENCING THE ACCEPTABILITY OF
FOODS

AD- 105 928
SURVEY INFORMATION: (A)
DESCRIPTION OF THE TRAINING DEVICE
TECHNICIAN (B) ENGINEERS' ESTIMATES
OF CIRCUITS AND SYSTEM
MAINTAINABILITY
AD- 242 571
HUMAN FACTOR ANALYSIS OF TEAM
TRAINING (U)
AD- 315 350

DISPLAY SYSTEMS
OBEDIENCE TO ROTATION-INDICATING
VISUAL DISPLAYS AS A FUNCTION OF
CONFIDENCE IN THE DISPLAYS.
AD- 657 472

GEOMETRIC FORMS
Aesthetic Preference for
Isosceles Triangles.
AD- 784 032

LEARNING
THE EFFECTS OF PRESTIGE AND
IDENTIFICATION FACTORS ON ATTITUDE
RESTRUCTURING AND LEARNING FROM
SOUND FILMS.
AD- 640 881

*ATTRITION
Academic Attrition from Navy
Technical Training Class 'A' School
Courses.
AD-A044 029
The Relationship of Personality
Characteristics to Attrition and
Performance Problems of Navy and
Air Force Recruits,
AD-A077 437
Navy Recruit Optimization, Post-
1980: Separation Process.

AD-A104 683

*AUDIOMETRY
FREQUENCY ANALYZERS
THE PURDUE PITCH METER--A DIRECT-
READING FUNDAMENTAL FREQUENCY
ANALYZER.
AD- 639 087

*AUDIOVISUAL AIDS
Demonstration and Evaluation of
a Microfiche-Based Audio/Visual
System. Focus on the Trained Man.
AD-A040 249

*AUDITORY ACUITY
ERRORS
THE ACCURACY OF COUNTING
REPEATED SHORT TONES,
AD- 640 925

INTENSITY
Some Statistical Aspects of Half-
Loudness Judgments.
AD- 764 031

MEASUREMENT
An Equal Discriminability Scale,
AD- 764 034

THRESHOLDS(PHYSIOLOGY)
THE LOUDNESS AND LOUDNESS
MATCHING OF SHORT TONES,
AD- 640 086

*AUDITORY PERCEPTION
AUDITORY SIGNALS
THE LOUDNESS OF REPEATED SHORT
TONES,
AD- 657 527

MILITARY TRAINING
INTENSITY MONITORING PERFORMANCE
AS A FUNCTION OF TRAINING.
AD- 639 098

REACTION(PSYCHOLOGY)
THE USE OF CUING IN TRAINING
TASKS: PHASE III.
AD- 657 367

SONAR TARGETS

Sonar Recognition Training: An
Investigation of Whole vs Part and
Analytic vs Synthetic Procedures.
AD- 737 659

SOUND PITCH
PITCH CHARACTERISTICS OF SHORT
TONES. II. PITCH AS A FUNCTION OF
TONAL DURATION,
AD- 657 521

*AUDITORY SIGNALS
AUDITORY PERCEPTION
THE LOUDNESS OF REPEATED SHORT
TONES,
AD- 657 527

PSYCHOACOUSTICS
AUDITORY SIGNALS,
AD- 639 628

PSYCHOLOGICAL TESTS
DISCRIMINATION OF SMALL TIME
INTERVALS BETWEEN A VISUAL AND AN
AUDITORY SIGNAL.
AD- 657 623

TRAINING DEVICES
THE USE OF AUDIO SIGNALS FOR
IDENTIFICATION OF RADAR SIGNALS,
AD- 644 708
AUDIO AIDS TO BLIND FLYING AND A
SCORING DEVICE FOR THE LINK
TRAINER,
AD- 657 464

*AUTOMATION
Automated Flight Training (AFT).
GCI/CIC Air Attack.
AD- 772 593
Design Study for an Auto-
Adaptive Landing Signal Officer
(LSO) Training System.
AD-A064 339
Precision Approach Radar
Training System (PARTS) Training
Effectiveness Evaluation.
AD-A091 912

*AVIATION MEDICINE

SUBJECT INDEX-7
UNCLASSIFIED FQP40C

ATT-AVI

UNCLASSIFIED

ACCELERATION
A BIBLIOGRAPHIC EVALUATION OF
THE EFFECTS OF ACCELERATION ON THE
CONTROL AND SAFETY OF HIGH SPEED
AIRCRAFT.
AD- 642 801

*AVIATION PERSONNEL
Study of Contact Flight
Training.
AD- 128 357
Studies in Naval Air Basic
Training - Contact Flight
Statistical Supplement.
AD- 128 359
THE APPLICATION OF POINT LIGHT
SOURCE TECHNIQUES TO A BREAKOUT
LANDING ATTACHMENT FOR A TWIN-
ENGINE INSTRUMENT TRAINER
AD- 227 558
AVIATOR ESCAPE SYSTEM TRAINING
AD- 256 342
IMPROVEMENT OF FLIGHT HANDBOOKS
AD- 266 704
TRAINING FOR PARTIAL PANEL
CONTROL SKILLS
AD- 297 378

ANTISUBMARINE WARFARE
CREW TRAINING, EQUIPMENT, AND
OPERATING CONDITIONS IN CURRENT ASW
HEAVIER-THAN-AIR AIRCRAFT: AN
EXPLORATORY STUDY.
AD- 378 181

PERFORMANCE(HUMAN)
Auxiliary Devices in High
Performance Aircraft Weapons System
Training.
AD- 901 028

SELECTION
ACADEMIC GRADES OF STUDENTS IN
THE NAVAL SCHOOL OF PRE-FLIGHT.
AD- 641 588
SUPPLEMENTARY REPORT ON PROJECT
ON PRE-FLIGHT GRADES.
AD- 641 592
A STUDY OF INDIVIDUAL
DIFFERENCES AMONG NAVAL AVIATION
STUDENTS.

AD- 641 593
PSYCHOLOGICAL STUDIES OF
ADVANCED NAVAL AIR TRAINING:
ANALYSIS OF FLIGHT PERFORMANCE
RATINGS.
AD- 854 581

*AVIATION SAFETY
AVIATION MEDICAL SAFETY
TRAINING. COURSE CONTENT MATERIALS
FOR TRAINING NAVAL FLIGHT SURGEONS
AD- 150 818
AVIATOR ESCAPE SYSTEM TRAINING
AD- 256 342
THE OPERATIONAL FLIGHT TRAINER
IN AVIATION SAFETY
AD- 287 905

TRAINING DEVICES
USING A GENERALIZED CONTACT
FLIGHT SIMULATOR TO IMPROVE VISUAL
TIME-SHARING.
AD- 619 047

*AVIONICS
Generalized Training Devices for
Avionic Systems Maintenance.
AD-A009 805

*BALLISTIC MISSILE SUBMARINES
DAMAGE
A Study of a Generalized
Submarine Advanced Casualty Ship
Control Training Device. Volume I.
Study Findings.
AD- 878 836

*BARRACKS
Design Concepts for Semi-Open-
Bay Barracks for Use by Navy 'A'
school Students.
AD-A103 578

*BEARINGS
COMPARISON OF THE OMNI BEARING
INDICATOR AND THE RADIO MAGNETIC
INDICATOR IN SHORT RANGE NAVIGATION
AD- 112 279

*BEHAVIOR
DERIVING TRAINING DEVICE

IMPLICATIONS FROM LEARNING THEORY
PRINCIPLES. VOLUME I. GUIDE-LINES
FOR TRAINING DEVICE DESIGN,
DEVELOPMENT AND USE
AD- 284 384
DERIVING TRAINING DEVICE
IMPLICATIONS FROM LEARNING THEORY
PRINCIPLES. VOLUME II: METHODOLOGY
AD- 284 381
HUMAN FACTOR ANALYSIS OF TEAM
TRAINING (U)
AD- 315 350

CLASSIFICATION
A Task Classification Approach
to Military Training Problems: A
Working Paper.
AD- 713 888

*BEHAVIORAL SCIENCE
Preliminary Investigations
Concerning the Training of Tactical
Decision Making Behavior.
AD-A028 722

*BIBLIOGRAPHIES
A BIBLIOGRAPHY OF PRODUCTION,
UTILIZATION AND RESEARCH ON
INSTRUCTIONAL FILMS
AD- 047 612
A REVIEW OF THE LITERATURE
PERTINENT TO THE DESIGN AND USE OF
EFFECTIVE GRAPHIC TRAINING AIDS
AD- 096 883
BASIC DEVELOPMENT ACCOMPLISHED
ON WIDE-ANGLE, NON-PROGRAMMED,
VISUAL PRESENTATIONS. VOLUME II:
APPENDIX
AD- 227 193
SELECTED ABSTRACTS FROM THE
LITERATURE ON STRESS
AD- 253 068
THE ROLE OF KNOWLEDGE OF RESULTS
IN LEARNING: A SURVEY
AD- 262 937
BIBLIOGRAPHY OF HUMAN
ENGINEERING REPORTS
AD- 284 953
Instructional Systems
Development: Conceptual Analysis
and Comprehensive Bibliography.

SUBJECT INDEX-8
UNCLASSIFIED FQP40C

AVI-B18

UNCLASSIFIED

- AD-A024 526
Annotated Bibliography of Human Factors Laboratory Reports (1945-1968). Supplement Number 2, 1973-1975.
- AD-A025 179
Motion in Flight Simulation: An Annotated Bibliography.
- AD-A061 687
Annotated Bibliography of Human Factors Laboratory Reports (1945-1968). Supplement Number 3, 1976-1978.
- AD-A069 057
HUMAN FACTORS ENGINEERING
ANNOTATED BIBLIOGRAPHY OF HUMAN FACTORS LABORATORY REPORTS (1945-1968).
- AD- 686 174
Annotated Bibliography of Human Factors Laboratory Reports (1945-1968). Supplement Number 1 (1968-1972).
- AD- 761 181
NAVAL TRAINING
Naval Training Equipment Center
Index of Technical Reports,
AD- 917 494L
- *BODY TEMPERATURE
MOTOR REACTIONS
THE EFFECT OF AMBIENT AND BODY TEMPERATURES UPON REACTION TIME,
AD- 657 481
- *BOMBING
NAVAL TRAINING
Seismic Scoring System for Air-to-Ground Weapons Training Ranges.
AD- 723 562
- *BONE MARROW
ON THE NATURE OF THE SPLEEN BONE MARROW RADIATION RECOVERY FACTORY
AD- 058 392
- *BREADBOARD MODELS
Multiple Microcomputer Control
Algorithm Feasibility Breadboard.
- AD-A107 940
*BRIGHTNESS
PERCEPTION
PERCEIVED BRIGHTNESS OF LIGHT
FLASHES.
AD- 609 358
TEST CONSTRUCTION(PSYCHOLOGY)
THE CONSTRUCTION OF SUBJECTIVE BRIGHTNESS SCALES FROM
FRACTIONATION DATA: A VALIDATION.
AD- 640 088
VISUAL PERCEPTION
A SCALE OF SUBJECTIVE BRIGHTNESS.
AD- 640 081
- *CAMERA LENSES
TELEVISION CAMERAS
Wide Angle Pinhole Lens and TV camera System Design, Fabrication and Checkout.
AD- 667 070
- *CAMOUFLAGE
GUIDED MISSILES
CAMOUFLAGE OF MISSILES.
FUNDAMENTAL LIMITATIONS OF CAMOUFLAGE WITH ABSORBING MATERIALS.
AD- 493 794
- *CARRIER LANDINGS
STUDY OF CARRIER LANDING TRAINING
AD- 140 210
The Effect of Delay in the Presentation of Visual Information on Pilot Performance.
AD-A021 418
Transfer of Training
Effectiveness: A7E Night Carrier Landing Trainer (NCLT) Device
2F103.
AD-A028 836
Computer Simulation of Fresnel Lens Optical Landing System.
AD-A038 456
A7 Training Effectiveness
- Through Performance Analysis.
AD-A056 230
Design Study for an Auto-Adaptive Landing Signal Officer (LSO) Training System.
AD-A064 339
Predictor Displays in Carrier Landing Training.
AD-A069 890
Field of View Requirements for Carrier Landing Training.
AD-A087 012
Glideslope Descent-Rate Cuing to Aid Carrier Landings.
AD-A092 193
Development of the Automated Performance Assessment and Remedial Training System (APARTS): A Landing Signal Officer Training Aid.
AD-A106 224
Conceptual Development of a Preliminary LSO Carrier Landing Training Aid.
AD-A107 002
Reports by Systems Technology, Inc., in Support of Carrier-Landing Research in the Visual Technology Research Simulator.
AD-A112 466
- FLIGHT SIMULATORS
KINETIC CUEING IN SIMULATED CARRIER APPROACHES.
AD- 617 689
KINETIC CUEING IN SIMULATED CARRIER APPROACHES. SUPPLEMENT I. STUDY DETAILS.
AD- 618 756
- STEREOSCOPIC DISPLAY SYSTEMS
Display Techniques for Simulation.
AD- 681 072
- TRAINING DEVICES
Training Effectiveness
Evaluation of Naval Training Devices. Part I A Study of the Effectiveness of a Carrier Air Traffic Control Center Training Device.

SUBJECT INDEX-9
UNCLASSIFIED FQP40C

BOD-CAR

UNCLASSIFIED

AD- 751 556

*CASSETTES

Comparison of Cassette versus
Reel-to-Reel Super 8mm Film
Projection Systems.
AD-8019 111L

*CATHODE RAY TUBE SCREENS

VISIBILITY ON RADAR SCOPES,
AD- 493 403

AFTERIMAGES

THE PURKINJE AFTER-IMAGE ON
SCREENS OF CATHODE-RAY TUBES,
AD- 492 701

PHOSPHORESCENCE

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: SIGNALS ON A P7 SCREEN
SEEN AT DIFFERENT INTERVALS AFTER
EXCITATION,

AD- 857 515

VISIBILITY ON CATHODE-RAY TUBE
SCREENS. SCREEN BRIGHTNESS,
AD- 857 520

TEST EQUIPMENT

A RECORDING PHOTOMETER AND ITS
USE IN STUDIES OF CATHODE RAY
SCREEN DISPLAYS.
AD- 839 280

VISIBILITY

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: PROBLEMS AND METHODS.
AD- 639 290

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: THE EFFECTS OF LIGHT
ADAPTATION.
AD- 639 390

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: INTENSITY AND COLOR OF
AMBIENT ILLUMINATION,
AD- 839 862

VISIBILITY OF CATHODE-RAY TUBE
SCREENS. THE EFFECT OF SIZE AND
SHAPE OF PIP,
AD- 839 863

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: SIGNALS ON A P-7 SCREEN

EXPOSED FOR DIFFERENT INTERVALS.,

AD- 839 865

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: VIEWING ANGLE,

AD- 840 087

VISIBILITY OF CATHODE-RAY TUBE
SCREENS: SEARCH TIME AS A FUNCTION
OF SIGNAL STRENGTH,

AD- 840 090

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: POSITIVE VS. NEGATIVE
SIGNALS ON AN INTENSITY MODULATED
SCOPE,

AD- 840 092

*CATHODE RAY TUBES

STUDY OF PROJECTION IATRON
APPLICATION TO HIGH SPEED
MULTICHANNEL PLOTTER.

AD- 405 853

RADAR TARGETS

DETECTION OF NEW TARGETS ON A
CATHODE RAY TUBE (PPI PRESENTATION)
WITH AND WITHOUT AN ASSOCIATED
AUDITORY SIGNAL

AD- 072 813

*CATHODES (ELECTRON TUBES)

HIGH STRENGTH TUBULAR CATHODES
FOR ELECTRON TUBES

AD- 070 780

*CENTRIFUGES

A CONTROLLED SUPINE SEAT FOR THE
PENSACOLA HUMAN CENTRIFUGE

AD- 051 713

*CHARGE COUPLED DEVICES

Laser Plotting Projector.

AD-A032 576

Electronic Control for 360
Degree Nonprogrammed Visual
Display.

AD-A032 679

*CHRONOMETERS

VERBAL BEHAVIOR
APPARATUS. AN ELECTRONIC
CHRONOGRAPH FOR MEASUREMENT OF
VOICE REACTION-TIME.

SUBJECT INDEX-10

UNCLASSIFIED FQP40C

AD- 839 379

*CIRCUITS

MAINTAINABILITY HANDBOOK FOR
ELECTRONIC EQUIPMENT DESIGN

AD- 241 284

SURVEY INFORMATION: (A)
DESCRIPTION OF THE TRAINING DEVICE
TECHNICIAN (B) ENGINEERS' ESTIMATES
OF CIRCUITS AND SYSTEM
MAINTAINABILITY

AD- 242 571

*CIRCULAR ERROR PROBABLE
RANGES(FACILITIES)

Seismic Scoring System for Air-
to-Ground Weapons Training Ranges.

AD- 723 562

*CLIMATE

TRAINING FILM EVALUATION: FB254.
COLD WEATHER UNIFORMS

AD- 073 888

*CLOSED CIRCUIT TELEVISION

Cross-Scan Investigation for
Closed Circuit Television.

AD-A047 920

Nonprogrammed Multiple Channel
Panoramic CCTV System.

AD-A050 314

TARGET RECOGNITION

Identification of Televised
Naval Vessels as a Function of TV
Lines per Image Height.

AD- 881 020

TELEVISION GUIDANCE

Development of Two Lenses for
160 deg x 60 deg Closed Circuit
Projection TV.

AD- 874 278

*COCKPITS

HUMAN FACTORS ENGINEERING
AN ANALYSIS OF PILOT
PERFORMANCES IN MULTIENGINE
AIRCRAFT (RSD).

AD- 839 026

CAS-COC

UNCLASSIFIED

*CODING
TEACHING MACHINES
EXPLORATIONS IN THE AUTOMATION
OF SENSORIMOTOR SKILL TRAINING.
AD- 619 046

TEACHING METHODS
A COMPARISON OF TWO METHODS OF
TEACHING MORSE CODE.
AD- 641 320

VISUAL SIGNALS
PSYCHOLOGICAL PROBLEMS IN CODING
INFORMATION FOR VISUAL DISPLAYS.
AD- 640 077

*COLOR TELEVISION
Requirements for Color in
Television Displays.
AD-A026 747
Color Displays for Training
Devices.
AD-B016 448L

*COLOR VISION
Color Acuity Vision Testing for
Laser Personnel.
AD-A064 312

AGING(PHYSIOLOGY)
RELATIONSHIPS BETWEEN AGE,
VISUAL ACUITY AND COLOR VISION.
AD- 639 867

TESTS
THE STABILITY OF 'IMPROVEMENT'
IN COLOR VISION DUE TO TRAINING, A
REPORT OF THREE CASES.
AD- 639 887
SIMULTANEOUS CHROMATIC CONTRAST
IN NORMAL AND ABNORMAL COLOR
VISION.
AD- 639 888

*COLORS
Optical Analysis of a Multicolor
Model of the 360 Degree
Nonprogrammed Visual Display.
AD-A042 092

VISUAL ACUITY

On the Number of Absolutely-
Identifiable Spectral Hues.
AD- 764 029

*COMBAT INFORMATION CENTERS
THE USE OF STATUS BOARDS IN
CIC'S: A PRELIMINARY SURVEY
AD- 014 177
THE EFFECT OF NUMBER OF SEARCH
OPERATORS, REPORTING PROCEDURES AND
LOAD ON THE PERFORMANCE OF AN
AIRBORNE CIC SYSTEM
AD- 043 899
ACO PERFORMANCE AS A FUNCTION OF
NUMBER OF SIMULTANEOUS RAIDS AND
TIME AVAILABLE FOR INTERCEPTION
AD- 043 900
AN EXPERIMENTAL INVESTIGATION OF
THE VALIDITY OF AN EMPIRICAL
MEASURE OF THREAT OF ENEMY RAIDS
USING ACO PERFORMANCE AS A
CRITERION
AD- 043 981
THE EFFECT OF NUMBER OF AIR
CONTROLLERS ON THE AIR INTERCEPT
CONTROL PERFORMANCE OF THE AIRBORNE
CIC
AD- 065 246
THE EFFECT OF OVERLAPPING RAID
SITUATIONS ON ACO INTERCEPT
PERFORMANCE
AD- 065 247
AN EXPERIMENTAL EVALUATION OF
FOUR COMMUNICATION PROCEDURES IN
THE AIRBORNE CIC
AD- 065 248
THE DESIGN AND EVALUATION OF TWO
INTERCEPT COURSE COMPUTERS
AD- 065 249
AN EXPERIMENTAL EVALUATION OF
INTEGRATED AIRBORNE EARLY WARNING
SYSTEMS IN THE AIRBORNE CIC
AD- 079 296
AN ENGINEERING STUDY OF A TYPE
OF DATA PICK-OFF AND DISPLAY SYSTEM
FOR AIRBORNE CIC
AD- 080 477
AN EXPERIMENTAL EVALUATION OF
THREE AEW-INTERCEPT SYSTEMS IN THE
AIRBORNE CIC
AD- 081 025

RECOMMENDATIONS FOR OPERATING
PROCEDURES AND PERSONNEL ALLOCATION
IN THE CIC COMPARTMENT OF THE WV-2
AIRCRAFT
AD- 112 900
ARRANGEMENT OF EQUIPMENT IN A
SUBMARINE COMBAT INFORMATION CENTER
AD- 135 631
TRAINING ANALYSIS OF GUNFIRE
SUPPORT TRAINING. THE SUPPORTING
ARMS EVALUATOR AT NAB CORONADO
AD- 300 868
TRAINING ANALYSIS OF GUNFIRE
SUPPORT TRAINING. SUMMARY OF
FINDINGS AND RECOMMENDATIONS
CONCERNING USE OF THE SUPPORTING
ARMS EVALUATOR
AD- 300 870
TRAINING ANALYSIS OF GUNFIRE
SUPPORT TRAINING. THE SUPPORTING
ARMS EVALUATOR AT NAB LITTLE CREEK
AD- 300 891

AIRBORNE
LAYOUT OF THE COMBAT INFORMATION
CENTER IN THE PO-2W AIRCRAFT.
AD- 641 448
EXPERIMENTAL METHODS OF
EVALUATING A SYSTEM: THE AIRBORNE
C.I.C.
AD- 641 455
PRELIMINARY LAYOUT OF CONTROLS
AND DISPLAYS ON THE APA-58
PRODUCTION CONSOLE.
AD- 659 514

ANALYSIS
PRELIMINARY STUDIES OF DETECTION
TIME AND OTHER FACTORS INVOLVED IN
AEW PERFORMANCE.
AD- 641 448

FAILURE(ELECTRONICS)
TABULATION OF FAILURE REPORTS OF
THE AN/APA-58 INSTALLATION FOR
PROJECT CADILLAC.
AD- 642 022

HUMAN FACTORS ENGINEERING
SYMPOSIUM ON PROJECT CADILLAC.
AD- 642 023

SUBJECT INDEX-11
UNCLASSIFIED FQP40C

COD-COM

UNCLASSIFIED

A HUMAN ENGINEERING APPRAISAL OF
THE COMMANDING OFFICER'S TACTICAL
PLOT ON THE DDE 719.
AD- 643 172

MILITARY REQUIREMENTS
A SYMPOSIUM ON INFORMATION
CENTERS AND NETS. PART I.
AD- 311 612

NAVAL PERSONNEL
PROCEDURES AND RESEARCH PLANNING
FOR ANTI-AIR WARFARE TRAINING
PROGRAM. SUPPLEMENT
AD- 354 390

NAVAL TRAINING
LABORATORY RESEARCH ON TEAM
TRAINING.
AD- 485 636

NAVAL VESSELS
SHIPBOARD SYSTEMS STUDIES.
HUMAN FACTORS IN THE ARRANGEMENT OF
EQUIPMENT ON THE DD-927 AND CLK-1.
AD- 820 543

SHIPBOARD SYSTEMS STUDIES.
AD- 820 545

PICKET SHIPS
SHIPBOARD SYSTEMS STUDIES.
ARRANGEMENT OF EQUIPMENT IN THE CIC
OF THE DER.
AD- 643 156

SHIPBOARD
THE ARRANGEMENT OF CIC EQUIPMENT
ON A CVL. (SHIPBOARD SYSTEMS
STUDIES).
AD- 646 615

SUBMARINES
SHIPBOARD SYSTEMS STUDIES.
ARRANGEMENT OF EQUIPMENT IN THE
ATTACK CENTER OF THE 583/584 CLASS
SUBMARINE.
AD- 820 546

TRAINING DEVICES
EXPERIMENTS ON TEAM TRAINING IN
A CIC-TYPE TASK ENVIRONMENT,

AD- 608 309
TEAM TRAINING.
AD- 660 019

*COMBAT NOISE
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

*COMBUSTION PRODUCTS
AIR POLLUTION
Analysis of Stack Gases for
Natural and Treated Fuel-Oil Fires.
AD- 881 530

*COMMAND AND CONTROL SYSTEMS
ANTISUBMARINE WARFARE
SHIPBOARD SYSTEMS STUDIES.
AD- 820 545

DATA PROCESSING
Training Aspects of Computer-
Aided Decision Making. I.
Comparison of Two Approaches to Man-
Computer Interaction.
AD- 842 370
Decision-Making Study Final
Report. 1. An Experimental
Evaluation of Tactrain: An
Approach to Computer-Aided Tactical
Decision-Making Training.
AD- 875 911

NAVAL VESSELS
SHIPBOARD SYSTEMS STUDIES.
HUMAN FACTORS IN THE ARRANGEMENT OF
EQUIPMENT ON THE DD-927 AND CLK-1.
AD- 820 543

SUBMARINES
SHIPBOARD SYSTEMS STUDIES.
ARRANGEMENT OF EQUIPMENT IN THE
ATTACK CENTER OF THE 583/584 CLASS
SUBMARINE.
AD- 820 546

*COMMAND + CONTROL SYSTEMS
Naval Training Device Center
25th Anniversary Commemorative

Technical Journal.
AD- 735 487

*COMMUNICATION EQUIPMENT
Training Effectiveness
Evaluation: Device 1023,
Communication and Navigation
Trainer.
AD- 776 619

*COMMUNICATION SATELLITES
Computer Managed Instruction by
Satellite: Phase I, A Feasibility
Study.
AD-A040 139

*COMMUNICATION SYSTEMS
AN EXPERIMENTAL EVALUATION OF
FOUR COMMUNICATION PROCEDURES IN
THE AIRBORNE CIC
AD- 065 248

SHIPBOARD
Study of Simulated Shipboard
Communications System
Standardization.
AD- 849 387

*COMPARATORS
INCANDESCENT LAMPS
A PHYSICAL COMPARATOR FOR THE
COLOR TEMPERATURES OF INCANDESCENT
LAMPS.
AD- 657 618

*COMPILERS
Language Design Using
Decompilation.
AD-A069 177

*COMPUTER AIDED DESIGN
Supplementary Routines for Lens
Design by Computer.
AD-A020 625
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-IM) (Device
X1787). Volume I. Problem Analysis.
AD-A091 422
Design Definition Study Report.
Full Crew Interaction Simulator-

SUBJECT INDEX-12
UNCLASSIFIED FQP40C

COM-COM

UNCLASSIFIED

Laboratory Model (FCIS-LM) (Device X17B7). Volume II. Requirements.
AD-A091 423
Design Definition Study Report. Full Crew Interaction Simulator-Laboratory Model (FCIS-LM) (Device X17B7). Volume III. Visual.
AD-A091 424
Design Definition Study Report. Full Crew Interaction Simulator-Laboratory Model (FCIS-LM) (Device X17B7). Volume IV. Motion.
AD-A091 425
Design Definition Study Report. Full Crew Interaction Simulator-Laboratory Model (FCIS-LM) (Device X17B7). Volume V. Vehicle.
AD-A091 426
Design Definition Study Report. Full Crew Interaction Simulator-Laboratory Model (FCIS-LM) (Device X17B7). Volume VI. Training Systems.
AD-A091 427
Design Definition Study Report. Full Crew Interaction Simulator-Laboratory Model (FCIS-LM) (Device X17B7). Volume VII. Conclusions.
AD-A091 428
Visual Technology Research Simulator, Visual and Motion System Dynamics.
AD-A111 801

*COMPUTER AIDED INSTRUCTION

Computer Managed Instruction in Navy Training.
AD- 777 040
A Guide for the Application of Performance-Structure Oriented CAI in Naval Training: A Working Paper.
AD- 784 379
Acoustic Tablet Data Input from Instructor Consoles: An Interim Report on Computer Display Interactive Scenario Development.
AD-A001 278
Use of Computer-Assisted Instruction for Interpersonal Skill Training: A Pilot Study.

AD-A009 361
Development and Research Utilizing the Plato IV System for Company Commander Behavioral Change Training.
AD-A014 213
New Concepts in Maintenance Trainers and Performance Aids.
AD-A017 216
Application of Computer-Assisted Instruction to Interpersonal Skill Training.
AD-A021 474
Research on High-Level Adaptive Training Systems.
AD-A022 291
Higher Order Adaptive Training Systems.
AD-A023 594
A Field Test of the PLATO IV System for Company Commander Behavioral Change Training.
AD-A027 701
Use of Computer Speech Understanding in Training: A Demonstration Training System for the Ground Controlled Approach Controller.
AD-A033 327
Evaluation of Human Relations Training Programs.
AD-A037 536
Computer Managed Instruction by Satellite: Phase I, A Feasibility Study.
AD-A040 139
Computer Managed Instruction at Remote Sites: Phases II-III, a Demonstration Design.
AD-A051 968
Development and Implementation of a Computerized Evaluation and Training System (CETS) at a Recruit Training Command.
AD-A055 422
Computer-Aided Authoring of Programmed Instruction for Teaching Symbol Recognition.
AD-A080 143
Functional Specifications for Computer Aided Training Systems

Development and Management (CATSDM) Support Functions.
AD-A081 245
Speech Understanding in Air Intercept Controller Training System Design.
AD-A088 812
Instructor Model Characteristics for Automated Speech Technology (IMCAST).
AD-A079 902
Computer Based Instructional System-1985 to 1995.
AD-A088 702
Computer Aided Training Evaluation and Scheduling (CATES) system: Assessing Flight Task Proficiency.
AD-A095 007
Computer Aided Authoring and Editing.
AD-A098 258
Development of the Automated Performance Assessment and Remedial Training System (APARTS): A Landing Signal Officer Training Aid.
AD-A106 224
Prototype Equipment Student Guide for ACE (Air Intercept Controller Prototype Training System).
AD-A108 999
Ordinal Syllabus for Air Intercept Controller Prototype Training System.
AD-A107 000
Training Improvements for the Tactical Aircrew Training System (TACTS): Project Summary Report.
AD-A107 003
Functional Design for Air Intercept Controller Prototype Training System.
AD-A113 209

*COMPUTER APPLICATIONS

Design of Training Systems Phase III Report.
AD-A024 482
Voice Interactive Analysis System Study.

SUBJECT INDEX-13
UNCLASSIFIED FQP40C

COM-COM

UNCLASSIFIED

AD-A074 833
Development and Test of a
Computer Readability Editing System
(CRES).
AD-A098 873
Implementing the Computer
Readability Editing System (CRES).
AD-A098 530
Computer Readability Editing
System.
AD-A099 488
A Survey of Computer Controlled
Audio Response Systems.
AD-A950 901

*COMPUTER ARCHITECTURE
Computer System Requirements
Analysis Device 2F112, F-14 Weapon
System Trainer.
AD-A043 578
A Relative Performance Analysis
of Selected Computers for Real-Time
Trainers (Preliminary Report).
AD-B053 204L

*COMPUTER GRAPHICS
Computer Aided Authoring and
Editing.
AD-A098 258
Terrain Model Animation.
AD-A107 911
Text and Illustration Processing
System (TIPS) User's Manual. Volume
II. Graphics Processing System.
AD-A109 779

*COMPUTER LOGIC
ANALOG-DIGITAL COMPUTERS FOR
REAL-TIME SIMULATION
AD- 275 849

*COMPUTER OPERATORS
Design of Training Systems,
User's Manual, Data Base, ETE,
SCRR, and TPF Models.
AD-A018 012

STRESS (PSYCHOLOGY)
PERCEPTION AND SHORT TERM MEMORY
UNDER WORK LOAD STRESS.
AD- 804 888

*COMPUTER PROGRAM DOCUMENTATION
System for Computer Automated
Typesetting ((SCAT) of Computer
Authored Texts.
AD-A088 838
Implementing the Computer
Readability Editing System (CRES).
AD-A098 530
Text and Illustration Processing
System (TIPS) User's Manual. Volume
I. Text Processing System.
AD-A103 878
Text and Illustration Processing
System (TIPS) User's Manual. Volume
II. Graphics Processing System.
AD-A109 779
Computer Program for Analysis of
Spherical Screen Distortion.
AD-A113 136

*COMPUTER PROGRAMMING
Assault Boat Equations Computer
Programming.
AD- 779 881
Design of Training Systems -
Program Maintenance Manual Data
Base, ETE, SCRR, and TPF Models.
Focus on the Trained Man,
AD-A018 089
Terrain Model Animation.
AD-A107 911
Connected Digit Recognition for
VIP-100. Volume II.
AD-B057 318L

INSTRUCTION MANUALS
First- and Third-Order Lens
Analysis by Programmable Desk
Calculator.
AD- 750 249
Radar Landmass Simulation
Computer Programming (Interim
Report).
AD- 755 722

REAL TIME
Development of a Hybrid Radar
Landmass Simulator.
AD- 740 785
Development of a Hybrid Radar
Landmass Simulator: Engineering

Report Number 7.
AD- 740 788

*COMPUTER PROGRAMS
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Supplementary Routines for Lens
Design by Computer.
AD-A020 625
Computer-Aided Authoring System
(AUTHOR) User's Guide. Volume I.
AD-A059 572
Computer-Aided Authoring System
(AUTHOR) User's Guide. Volume II.
AD-A061 611
System Description - Aviation
Wide-Angle Visual System (AWAVS)
computer Image Generator (CIG)
visual System.
AD-A065 080
The CNET Automated Budget System
(CABS).
AD-A073 138
Military Service Reporting
System.
AD-A077 051
Multiple Microcomputer Control
Algorithm.
AD-A080 735
Acquisition Cost Estimating
Using Simulation.
AD-A093 889
Program Procedures Report A-7E
aircraft Weapon System Trainer
(Flight), Device 2F84B.
AD-A950 828
Software Documentation for the
Research Tool Digital Computer
System. Volume IIA. Detailed
Program Description.
AD-A950 829

INSTRUCTION MANUALS
Software Documentation for the
Research Tool Digital Computer
System. Volume II. Program
Report.
AD- 891 391L

SUBJECT INDEX-14
UNCLASSIFIED FQP40C

COM-COM

UNCLASSIFIED

*COMPUTERIZED SIMULATION

Acquisition Cost Estimating
Using Simulation.
AD-A015 624
A Technique for Shipboard Sonar
Echo Simulation for Training.
AD-A027 096
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume I. Sections 1 through 4.
AD-A038 798
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume II. Sections 5 through 5.5.
AD-A038 797
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume III. Sections 5.6 through
5.10.
AD-A038 798
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume IV. Section 6 and Appendix
A.
AD-A038 799
Computer System Requirements
Analysis Device 2F112, F-14 Weapon
System Trainer.
AD-A043 578
Analysis of Software Simulation
in Computer-Based Electronic
Equipment Maintenance Trainers.
AD-A080 583
Instructor Model Characteristics
for Automated Speech Technology
(IMCAST).
AD-A079 902
Aircraft Maintenance
Effectiveness Simulation (AMES)
model.
AD-A087 518
System Description-Aviation Wide-
Angle Visual System (AWAVS)
computer Image Generator (CIG)
visual System.
AD-A111 800
Program Procedures Report A-7E

aircraft Weapon System Trainer
(Flight), Device 2F84B.
AD-A950 828
Software Documentation for the
Research Tool Digital Computer
System. Volume IIA. Detailed
Program Description.
AD-A950 829

*COMPUTERS

System Description - Aviation
Wide-Angle Visual System (AWAVS)
computer Image Generator (CIG)
visual System.
AD-A065 060
DDP-24 General-Purpose Computer.
Volume 1.
AD-A951 020

SIMULATION

STUDY OF COMPUTERS TO IMPROVE
COMMAND POST EXERCISES.
AD- 628 749

*CONDITIONED RESPONSE

PERFORMANCE(HUMAN)
PREDICTION OF SPEED OF
PERFORMANCE BY MUSCLE ACTION
POTENTIALS.
AD- 829 759

*CONFERENCES

Proceedings of NTEC/Industry
Conference (9th): Readiness
through Simulation held on 9-11
November 1978.
AD-A031 447

*CONFINED ENVIRONMENTS

SIMULATORS
DESIGN OF AN INTERNAL
ENVIRONMENTAL SIMULATOR.
AD- 442 843

*CONTAINERS

AN EXPERIMENTAL INVESTIGATION OF
EQUIPMENT PACKAGING FOR EASE IN
MAINTENANCE
AD- 241 571

*CONTRACTS

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*CONTROL KNOBS

THE EFFECTS OF INERTIA ON THE
ACCURACY OF KNOB SETTINGS
AD- 109 235
THE EFFECTS OF FRICTION ON THE
ACCURACY OF KNOB SETTINGS
AD- 109 236
ACCURACY OF SETTING CONTROL
KNOBS AS FUNCTIONS OF DIRECTIONS OF
FINAL MOVEMENT AND NUMBER OF
SETTINGS
AD- 109 237
THE EFFECT OF INTERMITTENT
COURSE ILLUMINATION OF DIFFERING
FREQUENCIES ON TRACKING PERFORMANCE
AD- 109 238
ACCURACY OF BISECTION OF LARGE
ANGULAR EXTENTS IN VARIOUS PLANES
OF MOVEMENT, USING A KNOB CONTROL
AD- 109 239
TIME-ORDERED EFFECTS IN LONG
SERIES OF KNOB CONTROL ADJUSTMENTS
AD- 109 351
THE EFFECTS OF VARYING DEGREES
OF KNOWLEDGE OF RESULTS OF KNOB
SETTING PERFORMANCE
AD- 109 352
ACCURACY OF KNOB SETTING AS A
FUNCTION OF: I. THE PLANE IN WHICH
THE KNOB TURNS; AND II. THE
DIAMETER OF THE KNOB
AD- 119 858

HUMAN FACTORS ENGINEERING
STUDIES IN COMPLEX COORDINATION.
I. PERFORMANCE ON THE TWO-HAND
COORDINATOR AS A FUNCTION OF THE
PLANES OF OPERATION OF THE
CONTROLS.
AD- 857 192

SUBJECT INDEX-15
UNCLASSIFIED FQP40C

COM-CON

UNCLASSIFIED

*CONTROL PANELS

Instructor Pilot's Role in
Simulation Training (Phase II).
AD-A047 919

HUMAN FACTORS ENGINEERING

A SURVEY OF THE IMPORTANCE AND
USE OF CONTROLS AND DISPLAYS ON
RADAR CONSOLE PANELS. (A
CONTRIBUTION TO PANEL LAYOUT).
AD- 639 376

STUDIES IN COMPLEX COORDINATION.
II. PERFORMANCE OF THE TWO-HAND
COORDINATOR AS A FUNCTION OF THE
RELATIONS BETWEEN DIRECTION OF
ROTATION OF CONTROLS AND DIRECTION
OF MOVEMENT OF DISPLAY.
AD- 640 042

HUMAN FACTORS IN PANEL DESIGN,
AD- 657 547

OPERATORS (PERSONNEL)

SUBMARINE CONTROL BY A SINGLE
OPERATOR.
AD- 643 655

RADAR EQUIPMENT

MODIFICATION OF THE CONTROLS OF
THE IP-48/APA-56 RANGE-AZIMUTH
INDICATOR.
AD- 641 450

*CONTROL SYSTEMS

BUILDING "FEEL" INTO CONTROLS:
THE EFFECT ON MOTOR PERFORMANCE OF
DIFFERENT KINDS AND AMOUNTS OF
FEEDBACK

AD- 092 507
THE EFFECT ON PERFORMANCE OF
VARYING THE DIRECTIONS AND PLANES
OF MOVEMENT OF THE CONTROL CRANKS ON
A COMPENSATORY TRACKING TASK

AD- 109 240
THE EFFECTS OF PLANES OF
ROTATION OF CONTROL CRANKS ON
PERFORMANCE LEVELS AND TRANSFER
EFFECTS IN COMPENSATORY AND
FOLLOWING TRACKING

AD- 109 354
BUILDING "FEEL" INTO CONTROLS.
II. PRESSURE FEEDBACK, SHORT

MOVEMENTS, AND THE INFLUENCE OF
MIXED VERSUS CONSTANT SERIES OF
DISPLACEMENTS

AD- 109 356
GREEN LIGHT RATER
AD- 212 031
SENSORY INTERACTION AND RESPONSE
CAPACITY

AD- 225 517
INFORMATION INPUT AND PROCESSING
VARIABLES IN MAN MACHINE SYSTEMS: A
REVIEW OF THE LITERATURE

AD- 230 997
ON THE RELATIVE IMPORTANCE OF
TIME SHARING AT CENTRAL AND
PERIPHERAL LEVELS

AD- 230 998
Multiple Microcomputer Control
Algorithm.

AD-A080 735
Multiple Microcomputer Control
Algorithm Feasibility Breadboard.
AD-A107 940

*CONTROL THEORY

An Optimal Control Model
Analysis of Data from a Simulated
Hover Task.
AD-A099 895

*COOLING

Sonar Target Vehicle Cooling
System Thermodynamic Redesign and
Evaluation.
AD-A028 385

*COST ANALYSIS

A Study to Develop Management
Indices for the Chief of Naval
Education and Training. Phase II -
Capital Resource Indices.

AD-A029 195
Academic Attrition from Navy
Technical Training Class 'A' School
Courses.

AD-A044 029
A Cost Management Control
Procedure for Initial Training in
Surface Ship Acquisition Programs.
AD-A070 037

Incremental Costing Model for

Use with the CNET Per Capita Course
Costing Data Base: System I,
AD-A081 759

*COST EFFECTIVENESS

Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.

AD- 854 363
Training Resource
Classifications: Direct-Indirect
and Fixed-Variable Cost Categories.

AD-A029 179
Techniques for Measuring the
Utilization of Major Aviation
Training Devices in Terms of Cost
and Application Style.
AD-A951 019

*COST ESTIMATES

Acquisition Cost Estimating
Using Simulation.
AD-A015 624
Acquisition Cost Estimating
Using Simulation.
AD-A093 689

*COST MODELS

Incremental Costing Model for
Use with the CNET Per Capita Course
Costing Data Base: System I,
AD-A081 759

*COSTS

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

*COUNTERMEASURES

Radar Countermeasures Field
Trainer Device 15E1, Types II, III
and V.
AD- 333 307

*COUNTING METHODS

NUMBERS
THE SUBITIZING AND COUNTING OF
VISUALLY PRESENTED FIELDS OF DOTS.
AD- 638 380

SUBJECT INDEX-18
UNCLASSIFIED FQP40C

CON-COU

UNCLASSIFIED

- TRAINING
THE EFFECT OF A SIMPLE TRAINING
PROCEDURE ON THE JUDGMENT OF VISUAL
NUMBER.
AD- 639 142
- *COURSES(EDUCATION)
Precommissioning Training.
AD-A043 189
An Heuristic Approach for the
Scheduling of Navy Training
Courses.
AD-A048 183
- *CYBERNETICS
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517
- *DAMAGE CONTROL
NAVAL TRAINING
STUDY OF SUBMARINE CASUALTY
CONTROL TRAINING.
AD- 486 430
- SUBMARINES
STUDY OF SUBMARINE DAMAGE
CONTROL TRAINING.
AD- 377 630L
- *DATA BASES
Military Service Reporting
System.
AD-A077 051
Incremental Costing Model for
Use with the CNET Per Capita Course
Costing Data Base: System I.
AD-A081 759
Survey of CIG Data Base
Generation from Imagery.
AD-A091 508
- *DATA PROCESSING
GREEN LIGHT RATER
AD- 212 031
Radar Image Generation Software.
AD- 786 778
- COMMAND AND CONTROL SYSTEMS
Training Aspects of Computer-
Aided Decision Making. I.
- Comparison of Two Approaches to Man-
Computer Interaction.
AD- 842 370
Decision-Making Study Final
Report. 1. An Experimental
Evaluation of Tactrain: An
Approach to Computer-Aided Tactical
Decision-Making Training.
AD- 875 911
- RADAR EQUIPMENT
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 7.
AD- 740 788
- *DATA PROCESSING SYSTEMS
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Naval Training Device Center
25th Anniversary Commemorative
Technical Journal.
AD- 735 487
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 383
- *DATA TRANSMISSION SYSTEMS
EFFECTIVENESS
ACCURACY OF ORAL TRANSMISSION OF
TARGET INFORMATION.
AD- 639 380
- *DECELERATION
TOLERANCES(PHYSIOLOGY)
A METHOD OF INCREASING THE
MANEUVERABILITY OF HIGH SPEED
AIRCRAFT WITHIN THE LIMITS OF HUMAN
TOLERANCE TO G FORCES,
AD- 857 449
- *DECISION MAKING
TRAINING ASPECTS OF DECISION
MAKING, PHASE II
AD- 283 848
Tactical Decision-Making
Training System Design.
- AD-A002 704
Decision Making and Training: A
Review of Theoretical and Empirical
Studies of Decision Making and
Their Implications for the Training
of Decision Makers.
AD-A014 490
Decision Analysis and Its
Application to the Naval Education
and Training Command.
AD-A015 825
Preliminary Investigations
Concerning the Training of Tactical
Decision Making Behavior.
AD-A028 722
Design of Training Systems.
Computerization of the Educational
Technology Assessment Model (ETAM).
Volume 1.
AD-A041 217
Design of Training Systems.
Computerization of the Educational
Technology Assessment Model (ETAM).
Volume 2.
AD-A041 261
Design of Training Systems: The
Development of Scaling Procedures.
AD-A051 647
Analysis of Requirements and
Methodology for Decision Training
in Operational Systems.
AD-A060 028
- NAVAL TRAINING
Application of Decision Making
and Team Training Research to
Operational Training. A
translative Technique.
AD- 871 984
- RECALL
THE EFFECT OF VARIOUS MODES OF
REHEARSAL ON SHORT-TERM RECALL.
AD- 605 387
- TACTICAL WARFARE
RESEARCH ON GENERALIZED SKILLS
RELATED TO TACTICAL DECISION
MAKING.
AD- 813 382

SUBJECT INDEX-17
UNCLASSIFIED FQP40C

COU-DEC

UNCLASSIFIED

- TRAINING DEVICES
BEHAVIORAL AND OPERATIONAL
ASPECTS OF TACTICAL DECISION MAKING
IN AAW AND ASW.
AD- 807 888
- *DECOMPRESSION
Analysis of an Altitude Control
System for a High Altitude Rapid
Decompression Chamber.
AD-A006 568
- *DEEP SUBMERGENCE
SIMULATORS
Underwater Terrain Navigation
and Reconnaissance Simulator.
AD- 754 091
- *DEFENSE SYSTEMS
NAVAL OPERATIONS
AIRBORNE AIR DEFENSE OF THE
FLEET (HUMAN ENGINEERING SYSTEMS
STUDIES)
AD- 385 664
- *DEFLECTORS
Piezoelectric Laser Beam
Deflector
AD- 780 419
Technological Projection for
Laser Deflectors.
AD-A014 208
- *DESIGN
SIMULATION
SIMULATION SYSTEM PROGRAMMING
DESIGN MANUAL.
AD- 439 418
- *DESTROYER ESCORTS
COMBAT INFORMATION CENTERS
A HUMAN ENGINEERING APPRAISAL OF
THE COMMANDING OFFICER'S TACTICAL
PLOT ON THE ODE 719.
AD- 843 172
- *DESTROYERS
MANEUVERABILITY
Analog Computer Simulation of
Destroyer Mooring and Docking.
(Phase I).
- AD- 853 352
- MARINE ENGINEERING
SHIPBOARD SYSTEMS STUDIES.
HUMAN FACTORS IN THE ARRANGEMENT OF
EQUIPMENT ON THE DD-927 AND CLK-1.
AD- 820 543
- MOORING
Experimental Model Visual
Display for Ship-Handling Trainers.
AD- 753 213
- *DETECTORS
GEOPHYSICS
STUDY, SIMULATION OF
OCEANOGRAPHIC AND GEOPHYSICAL SPACE-
SENSOR DISPLAYS.
AD- 838 041
- *DIGITAL COMPUTERS
THE APPLICATION OF DIGITAL
COMPUTER TECHNIQUES TO TACTICAL
TRAINING SIMULATORS
AD- 240 664
INVESTIGATION OF DIGITAL
SIMULATION OF AIRCRAFT SYSTEMS
AD- 274 175
INVESTIGATION AND EVALUATION OF
UDOFIT MATHEMATICAL PROCEDURES
AD- 401 748
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363
System Description-Aviation Wide-
Angle Visual System (AWAVS)
computer Image Generator (CIG)
Visual System.
AD-A111 800
Digital Computer Fundamentals.
AD-A950 900
A Relative Performance Analysis
of Selected Computers for Real-Time
Trainers (Preliminary Report).
AD-B053 204L
- DISPLAY SYSTEMS
Display Techniques for
Simulation.
AD- 881 072
- RADAR SIGNALS
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 2.
AD- 740 409
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 5.
AD- 740 410
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 6.
AD- 740 411
- RADAR TRAINERS
INVESTIGATION OF COMPUTER
TECHNIQUES FOR RADAR LANDMASS
SIMULATION.
AD- 831 592
DEMONSTRATION OF DIGITAL RADAR
LANDMASS SIMULATION TECHNIQUES.
AD- 662 407
- *DIGITAL SIMULATION
Simulation of an Air Cushion
Vehicle.
AD-A046 698
- *DIGITAL SYSTEMS
INVESTIGATION OF COMPUTER
TECHNIQUES FOR RADAR LAND MASS
SIMULATION
AD- 259 993
ANALOG-DIGITAL COMPUTERS FOR
REAL-TIME SIMULATION
AD- 275 849
- *DIRECTION FINDING
ERRORS
CALCULATION OF BEARING AND RANGE
ERRORS DUE TO DELAYS IN
TRANSMISSION OF RADAR INFORMATION.
AD- 839 298
- PERFORMANCE (HUMAN)
ACCURACY, VARIABILITY AND SPEED

SUBJECT INDEX-18
UNCLASSIFIED FQP40C

DEC-DIR

UNCLASSIFIED

OF ADJUSTING AN INDICATOR TO A
REQUIRED BEARING.
AD- 639 358
ACCURACY AND VARIABILITY OF
DIRECT ESTIMATES OF BEARING FROM
LARGE DISPLAY SCREENS.
AD- 639 359
SPECIAL PROBLEMS IN THE
ESTIMATION OF BEARING.
AD- 658 891

*DIRECTORIES
A Directory of Sources of
Information and Data Bases on
Education and Training.
AD-A091 013

*DISPLAY SYS
STUDY OF PROJECTION IATRON
APPLICATION TO HIGH SPEED
MULTICHANNEL PLOTTER.
AD- 405 853

*DISPLAY SYSTEMS
SOME DESIGN FACTORS AFFECTING
THE SPEED OF IDENTIFICATION OF
RANGE RINGS ON POLAR COORDINATE
DISPLAYS
AD- 050 619
ELECTRONIC DISPLAY EQUIPMENT
(EDE)
AD- 060 459
THE STUDY OF THE EFFECTS OF
VARYING LOADS OF AIRCRAFT PIPS AND
PIP SPEEDS UPON VECTORING
PERFORMANCE IN AIR TRAFFIC CONTROL
AD- 090 814
THE SPEED AND ACCURACY OF
DISCRIMINATING DIFFERENCES IN
NUMBER AND TEXTURE-DENSITY
AD- 140 735
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517
BASIC DEVELOPMENT ACCOMPLISHED
ON WIDE-ANGLE, NON-PROGRAMMED,
VISUAL PRESENTATIONS. VOLUME I
AD- 227 192
BASIC DEVELOPMENT ACCOMPLISHED
ON WIDE-ANGLE, NON-PROGRAMMED,
VISUAL PRESENTATIONS. VOLUME II.

APPENDIX
AD- 227 193
INFORMATION INPUT AND PROCESSING
VARIABLES IN MAN MACHINE SYSTEMS: A
REVIEW OF THE LITERATURE
AD- 230 997
ON THE RELATIVE IMPORTANCE OF
TIME SHARING AT CENTRAL AND
PERIPHERAL LEVELS
AD- 230 998
METHODS OF PRESENTING MOVING
OBJECTS IN POINT LIGHT SOURCE
VISUAL DISPLAYS
AD- 233 912
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE ATTACK TRAINING
AD- 235 074
THE APPLICATION OF DIGITAL
COMPUTER TECHNIQUES TO TACTICAL
TRAINING SIMULATORS
AD- 240 664
SIMULTANEOUS VS. SUCCESSIVE
PRESENTATION OF RELATIVE MOTION
PROBLEMS
AD- 248 419
PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 672 567
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
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25th Anniversary Commemorative
Technical Journal.
AD- 735 487
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226
A Computer Light-Pen Input
Technique for Data Entry from
Instructor Consoles.
AD- 779 074
An Investigation of the Use of
Moire Patterns for Computer-
Generated Display Instrument Faces.

AD- 780 420
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363
Technological Projection for
Laser Deflectors.
AD-A014 208
Laser Plotting Projector.
AD-A032 578
Electronic Control for 360
Degree Nonprogrammed Visual
Display.
AD-A032 679
Optical Analysis of a Multicolor
Model of the 360 Degree
Nonprogrammed Visual Display.
AD-A042 092
Compensation for Transport
Delays Produced by Computer Image
Generation Systems.
AD-A056 720
Training Characteristics of LSO
Reverse Display.
AD-A096 864
Unconventional Visual Displays
for Flight Training.
AD-A111 392
System Description-Aviation Wide-
Angle Visual System (AWAVS)
computer Image Generator (CIG)
visual System.
AD-A111 800
Reports by Systems Technology,
Inc., in Support of Carrier-Landing
Research in the Visual Technology
Research Simulator.
AD-A112 466
Visual Technology Research
Simulator (VTRS) Human Performance
Research: Phase III.
AD-A112 475

ATTITUDES(PSYCHOLOGY)
OBEDIENCE TO ROTATION-INDICATING
VISUAL DISPLAYS AS A FUNCTION OF
CONFIDENCE IN THE DISPLAYS.
AD- 857 472

CODING
PSYCHOLOGICAL PROBLEMS IN CODING

SUBJECT INDEX-19
UNCLASSIFIED FQP40C

DIR-DIS

UNCLASSIFIED

INFORMATION FOR VISUAL DISPLAYS,
AD- 640 077

DESIGN

MODIFICATION OF THE DESIGN OF
VISUAL DISPLAYS IN THE MANEUVERING
ROOM OF GUPPY SUBMARINES.

AD- 642 800

VISUAL DISPLAY OF COMPLEX
INFORMATION.

AD- 644 708

DIGITAL COMPUTERS

Display Techniques for
Simulation.

AD- 881 072

HUMAN FACTORS ENGINEERING

ESTIMATIONS OF DISTANCE ON POLAR
COORDINATE PLOTS AS A FUNCTION OF
THE SCALE USED.

AD- 639 392

SOME PERCEPTUAL PROBLEMS IN THE
DESIGN OF CODED SWITCHING
KEYBOARDS.

AD- 639 854

MODIFICATION OF THE CONTROLS OF
THE IP-48/APA-56 RANGE-AZIMUTH
INDICATOR.

AD- 641 450

SUGGESTIONS CONCERNING DESIRABLE
DISPLAY CHARACTERISTICS FOR
AIRCRAFT INSTRUMENTS.

AD- 657 194

NAVIGATIONAL AIDS

A STUDY OF THE MOVING PART,
HEADING PRESENTATION, AND MAP
DETAIL ON PICTORIAL AIR NAVIGATION
DISPLAYS.

AD- 637 538

RADAR EQUIPMENT

AN AIRBORNE RADAR DISPLAY TO
PRESENT OBSTACLE AVOIDANCE AND
FLIGHT INFORMATION.

AD- 379 148

SUPPLEMENT TO MODIFICATION OF
THE CONTROLS OF THE IP-48/APA-56
RANGE-AZIMUTH INDICATOR.

AD- 685 695

RADAR TARGET POSITION SIMULATORS
MANEUVERABLE TARGET POSITIONING
UNIT,

AD- 640 061

SIMULATED DISPLAY OF BEARING AND
RANGE IN RECTANGULAR COORDINATES.

AD- 640 075

REVIEWS

A SURVEY OF VARIOUS INFORMATION
DISPLAY DEVICES.

AD- 653 867

TEST FACILITIES

3-D Display System Analysis and
Test.

AD- 758 004

TRAINING DEVICES

COMPUTER ACTIVATED
ELECTROLUMINESCENT DISPLAY SCREEN.
APPLICATION OF LIGHT AND IMAGE
INTENSIFICATION TECHNIQUES, PHASE
I.

AD- 612 278

THE DEVELOPMENT OF
SPECIFICATIONS OF A STANDARD
DISPLAY BOARD FOR ARMY FIELD
FORCES.

AD- 658 739

Instructor Console Instrument
Simulation.

AD- 731 739

Large-Screen Tactical Display
Systems for Training Devices.

AD- 751 559

Visual Simulation and Image
Interpretation.

AD- 858 929

A Survey of Selected Visual
Simulation Systems.

AD- 907 481L

TRAINING PLANES

FUNCTIONAL REQUIREMENTS FOR
AIRCRAFT WEAPON SYSTEM TRAINER
INSTRUCTOR STATION DISPLAY AND
RECORDING SYSTEMS.

AD- 484 498

VISUAL PERCEPTION

THE EFFECTS OF SIZE AND
BRIGHTNESS ON THE SPEED OF
IDENTIFYING NUMBER OF RANGE RINGS.
AD- 657 622

WARFARE

PRELIMINARY RECOMMENDATIONS ON
THE TYPES OF VISUAL CODES PROPOSED
FOR THE INTEGRATED ELECTRONIC
DISPLAY SYSTEM.

AD- 644 844

*DISTORTION

Computer Program for Analysis of
Spherical Screen Distortion.
AD-A113 136

*DIVING

CONTROL PANELS
HUMAN FACTORS IN THE DESIGN OF
THE SUBMARINE DIVING CONTROL
STATION.

AD- 642 738

*DOPPLER RADAR

GENERAL THEORY OF A PULSED
DOPPLER RADAR SYSTEM
AD- 061 687

*DOPPLER SYSTEMS

GENERAL THEORY OF A PULSED
DOPPLER RADAR SYSTEM
AD- 061 687

*DOSIMETERS

SIMULATORS
RESEARCH AND DEVELOPMENT OF
SIMULATED DOSIMETER (FOR USE IN
CONJUNCTION WITH LARGE AREA RADIAC
TRAINER, DEVICE 11F8).
AD- 841 182

*DRIVER TRAINERS

Simulated Ground Vehicle Terrain
Sensing Techniques.
AD-B024 079L

*DRIVERS (PERSONNEL)

Simulated Ground Vehicle Terrain
Sensing Techniques.
AD-B024 079L

SUBJECT INDEX-20
UNCLASSIFIED FQP40C

DIS-DRI

UNCLASSIFIED

*DYNAMIC PROGRAMMING
Connected Digit Recognition for
VIP-100. Volume II.
AD-B057 316L

*EARLY WARNING SYSTEMS
AN EXPERIMENTAL EVALUATION OF
INTEGRATED AIRBORNE EARLY WARNING
SYSTEMS IN THE AIRBORNE CIC
AD- 079 296
AN EXPERIMENTAL EVALUATION OF
THREE AEW-INTERCEPT SYSTEMS IN THE
AIRBORNE CIC
AD- 081 025

AIRBORNE
PRELIMINARY STUDIES OF DETECTION
TIME AND OTHER FACTORS INVOLVED IN
AEW PERFORMANCE.
AD- 641 446

*ECHO RANGING
TRAINING DEVICES
Aspect Simulation Design Report
(Phase III) for ASW Aircraft.
AD- 917 883

*ECONOMIC ANALYSIS
A Primer on Economic Analysis
for Naval Training Systems.
AD-A024 214
A Guidebook for Economic
Analysis in the Naval Education and
Training Command.
AD-A053 207

*ECONOMICS
A GENERAL THEORY OF MEASUREMENT
APPLICATIONS TO UTILITY
AD- 241 626

*EDITING
Computer Aided Authoring and
Editing.
AD-A096 258
Development and Test of a
Computer Readability Editing System
(CRES).
AD-A096 873
Computer Readability Editing
System.

AD-A099 488

*EDUCATION
AUTOMATED TEACHING: A REVIEW OF
THEORY AND RESEARCH
AD- 241 283
THE ROLE OF KNOWLEDGE OF RESULTS
IN LEARNING: A SURVEY
AD- 262 937
A STUDY IN THE APPLICATIONS OF
TEACHING MACHINES
AD- 291 788
A Directory of Sources of
Information and Data Bases on
Education and Training.
AD-A091 013

MILITARY TRAINING
INTRODUCTORY COURSE ON TRAINING
SITUATION ANALYSIS PROCEDURE.
AD- 623 385

TRAINING DEVICES
INSTRUCTIONAL FILM RESEARCH
(RAPID MASS LEARNING) 1918-1950.
AD- 647 255

*EFFECTIVENESS
ANALOG-DIGITAL COMPUTERS FOR
REAL-TIME SIMULATION
AD- 275 649

*EJECTION SEATS
TRAINING DEVICES
EFFECTIVENESS OF EJECTION SEAT
TRAINING WITH SPECIAL REFERENCE TO
SDC DEVICE NO. 8EQ-2.
AD- 642 247

*ELECTRICAL EQUIPMENT
DISPLAY SYSTEMS
Preliminary Design Data Item 1C
Basic Motion Device Electrical
System.
AD- 856 365

*ELECTRICAL NETWORKS
MATHEMATICAL ANALYSIS OF
ELECTRICAL AND MECHANICAL SYSTEMS
AD- 056 336

*ELECTROACOUSTIC TRANSDUCERS
LOW FREQUENCY
High Fidelity, Low Frequency
Underwater Transducer Study.
AD- 394 449L

*ELECTRODES
MEDICAL EQUIPMENT
SURFACE ELECTRODES FOR RECORDING
BIOELECTRIC POTENTIALS.
AD- 639 042

*ELECTROLUMINESCENCE
SCREENS(DISPLAYS)
COMPUTER ACTIVATED
ELECTROLUMINESCENT DISPLAY SCREEN.
APPLICATION OF LIGHT AND IMAGE
INTENSIFICATION TECHNIQUES, PHASE
I.
AD- 612 278

*ELECTROMAGNETIC SHIELDING
LIGHTNING ARRESTERS
Lightning Protection for Navy
Device 202 Site, Astor, Florida.
AD- 869 851

*ELECTRON TUBES
MAINTAINABILITY HANDBOOK FOR
ELECTRONIC EQUIPMENT DESIGN
AD- 241 284

*ELECTRONIC COUNTER MEASURES
Assessment of Surface Navy ECCM
Training, 1975 to 1980.
AD-A095 006

NAVAL TRAINING
Surface Navy ECCM Training
Analysis.
AD-B008 049L

*ELECTRONIC COUNTERMEASURES
AIRCRAFT
THE ECM STATION OF THE PO-2W.
AD- 377 646

SYMPOSIA
TECHNICAL ANALYSIS STUDY OF
ELECTRONIC COUNTERMEASURES AND
ELECTRONIC WARFARE TRAINING

SUBJECT INDEX-21
UNCLASSIFIED FQP40C

DYN-ELE

UNCLASSIFIED

DEVICES.
AD- 380 020L

TRAINING DEVICES

RADAR COUNTERMEASURES FIELD
TRAINER DEVICE 15E1, TYPE I
AD- 350 574
Experimental Model, ECM
Deception Repeater Trainer.
AD- 518 463L

*ELECTRONIC EQUIPMENT

AN EVALUATION OF THE TRAINER-
TESTER AND PUNCHBOARD TUTOR AS
ELECTRONICS TROUBLE-SHOOTING
TRAINING AIDS
AD- 115 708
MAINTAINABILITY HANDBOOK FOR
ELECTRONIC EQUIPMENT DESIGN
AD- 241 284
DESIGN FOR MAINTAINABILITY
AD- 241 901
SURVEY INFORMATION: (A)
DESCRIPTION OF THE TRAINING DEVICE
TECHNICIAN (B) ENGINEERS' ESTIMATES
OF CIRCUITS AND SYSTEM
MAINTAINABILITY
AD- 242 571
Analysis of Software Simulation
in Computer-Based Electronic
Equipment Maintenance Trainers.
AD-A060 583

DESIGN

A WIDE RANGE ELECTRONIC
CHRONOSCOPE.
AD- 657 620

MAINTENANCE

Application and Design
Characteristics of Generalized
Training Devices.
AD- 733 471

NAVAL RESEARCH

Students Guide to Explosive Echo
Ranging for Trainer Sonobuoy
Detection and Classification Device
14B12.
AD- 383 587
Students' Guide To Explosive

Echo Ranging for Trainer, Sonobuoy
Detection and Classification Device
14B12. Supplement 1.

AD- 383 588

*ELECTRONIC SCANNERS

Cross-Scan Investigation for
Closed Circuit Television.
AD-A047 920

*ELECTRONIC TECHNICIANS

Electronic Warfare Maintenance
Training Analysis.
AD-A019 191

*ELECTRONIC WARFARE

Electronic Warfare Maintenance
Training Analysis, Executive
Summary.

AD-A018 445

Development of the Navy
Consolidated Electronic Warfare
Operator Curriculum. Focus on the
Trained Man.

AD-A057 011

Application of Random Access
Video Programs in Navy Electronic
Warfare Training.
AD-A091 211

TRAINING DEVICES

TECHNICAL ANALYSIS STUDY OF
ELECTRONIC COUNTERMEASURES AND
ELECTRONIC WARFARE TRAINING
DEVICES.

AD- 380 020L

*ELECTRONICS

New Concepts in Maintenance
Trainers and Performance Aids.
AD-A017 216

TEACHING MACHINES

MEMORY FACTORS IN COMPUTER-
CONTROLLED MAINTENANCE TRAINING.
AD- 697 980

*ELECTROOPTICS

DISPLAY SYSTEMS
Electro-Optical Visual Display
Simulator.

AD- 503 441L

LIGHT TRANSMISSION

Review of Polarization, Crystal
Optics, and Electro-Optic
Phenomena.

AD- 880 732

TRAINING DEVICES

LASERS FOR TRAINING DEVICES.
AD- 479 782

ULTRASONIC RADIATION

LASER DEFLECTION BY A
TORSIONALLY RESONANT HORN LOADED
PIEZOELECTRIC CERAMIC.

AD- 816 860

*ELECTROPHOTOGRAPHY

TELEVISION DISPLAY SYSTEMS
APPLICATION OF
ELECTROPHOTOGRAPHY TO TELEVISION
PROJECTION.
AD- 673 536

*ELECTROPHYSIOLOGY

PERFORMANCE(HUMAN)
APPLICATION OF ELECTRO-
PHYSIOLOGICAL TECHNIQUES TO HUMAN
PERFORMANCE: THE READING ASSESSOR -
THE ALERTNESS INDICATOR.
AD- 839 045

*ELECTROSTATICS

POLARIZATION
AN EXPLORATORY INVESTIGATION
INTO THE POLARITY STABILITY OF THE
ELECTROSTATIC CHARGE ON AN IN-
FLIGHT PROJECTILE.
AD- 628 189

*EMOTIONS

SELECTED ABSTRACTS FROM THE
LITERATURE ON STRESS
AD- 253 088

*ENGINEERS

SURVEY INFORMATION: (A)
DESCRIPTION OF THE TRAINING DEVICE
TECHNICIAN (B) ENGINEERS' ESTIMATES
OF CIRCUITS AND SYSTEM

SUBJECT INDEX-22
UNCLASSIFIED FQP40C

ELE-ENG

UNCLASSIFIED

- MAINTAINABILITY**
AD- 242 571
- *ENGLISH LANGUAGE**
Assessment of the Need for
Verbal Language Instruction for
Navy Recruits.
AD-A113 375
- *ENLISTED PERSONNEL**
Assessment of Numerical Skills
of Navy Enlisted Personnel.
AD-A102 028
- *EQUATIONS**
MOTION
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME III, PART
I. COMPUTATIONAL METHODS ANALOG.
STUDY, EQUATIONS OF MOTION OF
VERTICAL/SHORT TAKE-OFF AND LANDING
OPERATIONAL FLIGHT/WEAPON SYSTEM
TRAINERS.
AD- 607 737
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME III, PART
II. COMPUTATIONAL METHODS DIGITAL.
STUDY, EQUATIONS OF MOTION OF
VERTICAL/SHORT TAKE-OFF AND LANDING
OPERATIONAL FLIGHT/WEAPON SYSTEM
TRAINERS.
AD- 607 738
- *EQUATIONS OF MOTION**
MANEUVERABILITY
DIGITAL COMPUTATION STUDY,
DYNAMIC VS KINEMATIC EQUATIONS.
AD- 627 099
- NUMERICAL ANALYSIS**
DIGITAL COMPUTATION STUDY,
DYNAMIC VERSUS KINEMATIC EQUATIONS.
SUPPLEMENT 1. APPENDIX C-RESPONSE
CURVES.
AD- 368 968L
- *EXPERIMENTAL DESIGN**
MAGLAD Effective Simulation,
Range and Alignment Tolerance
Demonstration Test Plan.
AD-A092 267
- *EYE**
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363
- EXERCISE(PHYSIOLOGY)**
EMPTY VISUAL FIELD STUDIES:
SOME EFFECTS OF CORRECTIVE LENSES,
FILTERS, AND STRUCTURE,
AD- 445 863
- MOTION**
Eye Movement Research Program.
AD- 694 465
Eye Movement Research Program.
Annual Report Number 2. Visual
Training.
AD- 741 246
- PHOTOSENSITIVITY(BIOLOGICAL)**
THRESHOLDS OF THE HUMAN EYE FOR
ELECTRIC STIMULATION BY DIFFERENT
WAVE FORMS,
AD- 659 690
PUPIL SIZE AS DETERMINED BY
ADAPTING LUMINANCE,
AD- 659 691
- SAFETY**
LASER PARAMETERS FOR HUMAN
VIEWING. I. AN ANALYSIS OF VIEWING
DIRECT AND SCATTERED LASER
RADIATION.
AD- 675 803
- STIMULATION(PHYSIOLOGY)**
APPARATUS. AN ELECTRONIC
STIMULATOR FOR USE ON THE HUMAN
EYE,
AD- 647 140
- *FAILURE(ELECTRONICS)**
COMBAT INFORMATION CENTERS
TABULATION OF FAILURE REPORTS OF
THE AN/APA-58 INSTALLATION FOR
PROJECT CADILLAC.
AD- 642 022
- *FEASIBILITY STUDIES**
An Experimental Investigation of
the Role of Motion in Ground-Based
Trainers.
AD- 778 665
Application of Simulation to
Individualized Self-Paced Training.
AD- 788 702
- *FEEDBACK**
A Comparative Assessment of
Three Methods of Collecting
Training Feedback Information.
AD-A063 742
A Structured Interview
Methodology for Collecting Training
Feedback Information.
AD-A097 671
- *FIBER OPTICS**
Peri-Apollar 380 Degree Lens
Distortion Free Linear Mapping.
AD-A036 150
- OPTICAL SIGHTS**
FIBER OPTICS REMOTE SIGHT FOR
ASSESSMENT OF GUNNER PERFORMANCE.
AD- 671 073
- TELEVISION DISPLAY SYSTEMS**
WIDE ANGLE TELEVISION
PROJECTION. VOLUME I. (BASIC AND
APPENDICES A, B, AND C).
AD- 673 444
WIDE ANGLE TELEVISION
PROJECTION. VOLUME II.
(APPENDICES D, E, F, G, AND H).
AD- 673 445
- TELEVISION EQUIPMENT**
WIDE ANGLE TELEVISION
PROJECTION, VOLUME I.
AD- 621 711
WIDE ANGLE TELEVISION
PROJECTION. VOLUME II, APPENDICES
B AND C (SCHEMATICS).
AD- 623 815
- *FILM PROJECTORS**
STUDY OF POINT LIGHT SOURCE
PROJECTION SYSTEM COMPONENTS
AD- 233 882

SUBJECT INDEX-23
UNCLASSIFIED FQP40C

ENG-FIL

UNCLASSIFIED

*FIRE CONTROL RADAR
OPERATIONAL READINESS
Surface Navy ECCM Training
Analysis.
AD-8008 049L

*FIRE CONTROL SYSTEMS
MAINTENANCE
Design Characteristics of a
Generalized Fire-Control System
Maintenance Trainer (GFCST).
AD- 733 983
A Study of the Feasibility and
Desirability of Developing a
Generalized Underwater Fire-Control
System Maintenance Trainer.
AD- 871 547

OPTICAL EQUIPMENT
Photo-Optical Design, Observed
Fire Trainer.
AD- 759 702

SUBMARINES
HUMAN ENGINEERING EVALUATIONS OF
THE FIRE CONTROL SYSTEM MK 101 ON
THE SSK-1.
AD- 820 544

*FIRE FIGHTING
Training Effectiveness
Evaluation of a Prototype Water-
Spray Smoke Abatement System for
Fire Fighting Training.
AD- 774 920
Stack Gas Measurement of Burning
Propane Gas for an Experimental
Fire Fighting Trainer.
AD- 781 886
Feasibility Demonstration of a
Non-Pollutant Synthetic Fire
Fighting Trainer.
AD-A003 011
Development of Smoke Abated
Aircraft Crash/Rescue Fire Fighting
Trainer.
AD-A035 999
Experimental Research for
Advanced Firefighting Simulators.
AD-A057 216

*FIRES
Experimental Research for
Advanced Firefighting Simulators.
AD-A057 216

AIR POLLUTION
Analysis of Stack Gases for
Natural and Treated Fuel-Oil Fires.
AD- 881 530

*FIRING ERROR INDICATORS
AERIAL GUNNERS
Concept Formulation Study for an
Armed Aircraft Qualification Range
Scoring System.
AD- 869 900

PLANNING
Report on Results of Concept
Formulation Activities for an Armed
Aircraft Qualification Range
Scoring System.
AD- 870 828

PRECISION BOMBING
DEVICE X3B57 FEASIBILITY
DEMONSTRATION REPORT.
AD- 878 313

*FIRING TESTS(ORDNANCE)
Laser Man Versus Man Weapon Fire
Simulation.
AD- 770 619

LASERS
Gas Lasers in Weapon Firing
Simulator.
AD- 844 286

SIMULATORS
Semiconductor Laser Weapon Fire
Simulators for Pop-Up and Aerial
Target Engagement Training.
AD- 742 084

*FLEET EXERCISES
Assessment of Surface Navy ECCM
Training, 1975 to 1980.
AD-A095 006

*FLIGHT

HANDBOOKS
HIGH SPEED FLIGHT INFORMATION
FOR PILOTS.
AD- 471 058

INSTRUCTION MANUALS
PHOTOTYPE SPECIFICATION FOR THE
PREPARATION OF FLIGHT MANUALS.
AD- 637 200

JOB ANALYSIS
THE NATURAL PILOT MODEL FOR
FLIGHT PROFICIENCY EVALUATION.
AD- 410 805

MODELS
EXPERIMENTAL STUDY OF THE
NATURAL PILOT FLIGHT PROFICIENCY
EVALUATION MODEL.
AD- 414 666

MODELS (SIMULATIONS)
THE NATURAL PILOT MODEL FOR
FLIGHT PROFICIENCY EVALUATION.
AD- 410 805

OPERATION
THE NATURAL PILOT MODEL FOR
FLIGHT PROFICIENCY EVALUATION.
AD- 410 805

PERFORMANCE(HUMAN)
EVALUATION OF THE SCHOOL LINK AS
AN AID IN TEACHING GROUND REFERENCE
MANEUVERS.
AD- 657 473

*FLIGHT CONTROL SYSTEMS
DESIGN
SUGGESTIONS CONCERNING DESIRABLE
DISPLAY CHARACTERISTICS FOR
AIRCRAFT INSTRUMENTS.
AD- 657 194

HUMAN FACTORS ENGINEERING
THE HUMAN FACTOR IN THE DESIGN
OF STICK AND RUDDER CONTROLS FOR
AIRCRAFT.
AD- 839 026

*FLIGHT CREWS

SUBJECT INDEX-24
UNCLASSIFIED FQP40C

FIR-FLI

UNCLASSIFIED

A-6E Systems Approach to Training. Phase I.
AD-A037 488
F-4J/N Instructional System Development: Phase I.
AD-A061 098
Training Improvements for the Tactical Aircrew Training System (TACTS): Project Summary Report.
AD-A107 003
Development of a Computer Based Air Combat Maneuvering Range Debrief System. Volume I.
AD-A107 342
Performance Measurement and the Navy's Tactical Aircrew Training System (TACTS).
AD-A110 669

NAVAL TRAINING
Task Analysis Of Pilot, Copilot, and Flight Engineer Positions for the P-3 Aircraft.
AD- 766 445

*FLIGHT INSTRUMENTS
COMPARISON OF THE OMNI BEARING INDICATOR AND THE RADIO MAGNETIC INDICATOR IN SHORT RANGE NAVIGATION
AD- 112 279

*FLIGHT PATHS
LOW ALTITUDE FLYING: AN ANALYSIS
AD- 159 829

*FLIGHT SIMULATION
Capabilities in Wide Angle visual Technology.
AD-A002 706
The Effect of Delay in the Presentation of Visual Information on Pilot Performance.
AD-A021 418
Instructor Pilot's Role in Simulator Training.
AD-A023 546
Computer Simulation of Fresnel Lens Optical Landing System.
AD-A038 456
Motion in Flight Simulation: An Annotated Bibliography.

AD-A061 687
Flight Hour Reductions in Fleet Replacement Pilot Training through Simulation.
AD-A070 826
System Description-Aviation Wide-Angle Visual System (AWAVS) computer Image Generator (CIG) visual System.
AD-A111 800
Reports by Systems Technology, Inc., in Support of Carrier-Landing Research in the Visual Technology Research Simulator.
AD-A112 466
Computer Program for Analysis of Spherical Screen Distortion.
AD-A113 136
Program Procedures Report A-7E aircraft Weapon System Trainer (Flight), Device 2F84B.
AD-A950 828
Software Documentation for the Research Tool Digital Computer System. Volume IIA. Detailed Program Description.
AD-A950 829

*FLIGHT SIMULATORS
EVALUATION OF THE SNJ OPERATIONAL FLIGHT TRAINER
AD- 086 988
OBJECTIVE SCORING PROCEDURE FOR OPERATIONAL FLIGHT TRAINER PERFORMANCE
AD- 110 925
EVALUATION OF TRAINING EFFECTIVENESS OF THE 2-FH-2 HELICOPTER FLIGHT TRAINER RESEARCH TOOL
AD- 125 485
FIDELITY OF SIMULATION IN OPERATIONAL FLIGHT TRAINERS. PART I. EFFECTIVENESS OF ROUGH AIR SIMULATION
AD- 140 988
DYNAMIC TEST PROGRAM FOR WEAPONS SYSTEM TRAINERS
AD- 228 942
FIDELITY OF SIMULATION. I. TIME SHARING REQUIREMENTS AND CONTROL

LOADING AS FACTORS IN TRANSFER OF TRAINING
AD- 231 000
THE APPLICATION OF POINT SOURCE PROJECTION TECHNIQUES TO HELICOPTER LOW-ALTITUDE NAVIGATION TRAINING
AD- 235 880
THE APPLICATION OF POINT SOURCE PROJECTION TECHNIQUES TO LOW ALTITUDE-HIGH SPEED NAVIGATION TRAINING
AD- 235 881
EVALUATION OF EXPERIMENTAL POINT SOURCES AND TRANSPARENCIES FOR HELICOPTER HOVERING FLIGHT SIMULATION DEVICE 2FH2
AD- 235 883
PART-VERSUS WHOLE-TASK LEARNING OF A FLIGHT MANEUVER
AD- 242 580
DYNAMIC TEST PROGRAM FOR WEAPON SYSTEMS TRAINERS
AD- 262 667
EFFECTS OF PROGRAMMED PERCEPTUAL TRAINING ON THE LEARNING OF CONTACT LANDING SKILLS
AD- 284 377
INVESTIGATION OF DIGITAL SIMULATION OF AIRCRAFT SYSTEMS
AD- 274 175
THE OPERATIONAL FLIGHT TRAINER IN AVIATION SAFETY
AD- 287 905
INVESTIGATION OF 360-DEGREE NONPROGRAMMED VISUAL PRESENTATION.
AD- 291 468
CRITERIA FOR ACCEPTABLE REPRESENTATION OF AIR-PLANE DYNAMIC RESPONSES IN SIMULATORS USED FOR PILOT TRAINING
AD- 297 838
DYNAMIC TEST PROGRAM FOR WEAPONS SYSTEMS TRAINERS (U)
AD- 323 180
INVESTIGATION AND EVALUATION OF UDOFTT MATHEMATICAL PROCEDURES
AD- 401 748
THE PILOT'S VISUAL TASK. A STUDY OF VISUAL DISPLAY REQUIREMENTS.
AD- 407 440

SUBJECT INDEX-25
UNCLASSIFIED FQP40C

FLI-FLI

UNCLASSIFIED

Naval Training Device Center
25th Anniversary Commemorative
Technical Journal.
AD- 735 487
Training Analysis of P-3
Replacement Pilot and Flight
Engineer Training.
AD- 773 745
Dynamics Report for T-28B
Simplified Flight Simulator.
AD- 774 479
Training Analysis of P-3
Replacement Pilot Training.
AD- 777 428
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363
Factors Surrounding Motion
Platform - Visual System Coupling
in Flight Simulators.
AD-A006 462
Device 2F90 Flying Qualities and
Performance Evaluation and
Discrepancy Correction.
AD-A016 586
Development and Evaluation of
Trainee Performance Measures in an
Automated Instrument Flight
Maneuvers Trainer.
AD-A024 517
Design Studies of a Motion
System for the VTOL Simulation
Facility.
AD-A024 732
A7E Transfer of Training
Effectiveness: Device 2C15A CPT
and Device 2F84B OFT/WST.
AD-A027 691
Training Effectiveness
Evaluation of Device 2F87F, P-3C
Operational Flight Trainer.
AD-A035 771
Current Simulator Substitution
Practices in Flight Training.
AD-A038 875
Aviation Wide-Angle Visual
System (AWAVS). Design Analysis
Report (Study Report).
AD-A037 223
Delay of Visual Feedback in

Aircraft Simulators.
AD-A037 839
Acceptance Testing of Flying
Qualities and Performance, Cockpit
Motion, and Visual Display System
Simulation for Flight Simulators.
AD-A040 288
Aviation Wide-Angle Visual
System (AWAVS). Trainer Design
Report. Subsystem Design Report.
AD-A046 699
Instructor Pilot's Role in
Simulation Training (Phase II).
AD-A047 919
Automated Weapon System Trainer:
Expanded Adaptive Module for Basic
Instrument Flight Maneuvers.
AD-A048 492
Compensation for Transport
Delays Produced by Computer Image
Generation Systems.
AD-A056 720
The Effects of Simulator Landing
Practice and the Contribution of
Motion Simulation to P-3 Pilot
Training.
AD-A061 143
Instructor Pilot's Role in
Simulator Training. Phase III.
AD-A081 732
AH-64 AAH Concept Formulation
Specification.
AD-A084 390
Functional Design of an
Automated Instructional Support
System for Operational Flight
Trainers.
AD-A085 573
Training Considerations in
Support of Refurbishment of Device
2F89D for the Naval Reserve.
AD-A070 780
Operational Performance of P-3
Pilots as a Function of Variations
in Fleet Readiness Training.
AD-A086 883
Field of View Requirements for
Carrier Landing Training.
AD-A087 012
Critical Research Issues and
Visual System Requirements for a

V/STOL Training Research Simulator.
AD-A092 561
Simulator Sickness Occurrences
in the 2E8 Air Combat Maneuvering
Simulator (ACMS).
AD-A097 742
The Effects of Various Fidelity
Factors on Simulated Helicopter
Hover.
AD-A102 028
Preparation and Design for a
Training Effectiveness Evaluation
of Device 2F84C for Replacement
Pilot Training.
AD-A106 939
Unconventional Visual Displays
for Flight Training.
AD-A111 392
Distribution of Monochrome
Screen Luminance in the CTOL Visual
Technology Research Simulator.
AD-A111 799
Visual Technology Research
Simulator, Visual and Motion System
Dynamics.
AD-A111 801
Visual Technology Research
Simulator (VTRS) Human Performance
Research: Phase III.
AD-A112 475
Improved Procedures Training
through Use of Aids Developed from
Learning Guidelines.
AD-A113 109
General Specification for
Testing of Operational Flight
and/or Tactics Trainers Simulation.
AD-A950 000
AH-64 AAH Concept Formulation
Study.
AD-B036 403L
AAH Study Report. Supplement.
AD-B038 404L

ADAPTIVE CONTROL SYSTEMS
ADAPTIVE TECHNIQUES FOR
SYNTHETIC FLIGHT TRAINING SYSTEMS.
AD- 678 536
SYNTHETIC FLIGHT TRAINING SYSTEM
AH-56/CH-47, CONCEPT FORMULATION
REPORT (ADDENDUM).

SUBJECT INDEX-26
UNCLASSIFIED FQP40C

FLI-FLI

UNCLASSIFIED

AD- 878 851

ADAPTIVE SYSTEMS

IMPROVING PILOTING SKILLS IN
TURBULENT AIR USING A SELF-ADAPTIVE
TECHNIQUE FOR A DIGITAL OPERATIONAL
FLIGHT TRAINER.

AD- 875 805

AERIAL WARFARE

Study of Crew Performance
Measurement for High-Performance
Aircraft Weapon System Training:
Air-to-Air Intercept.

AD- 727 739

AIR TO SURFACE MISSILES

PROPOSED EVALUATION FOR BULLPUP
MISSILE GROUND AND IN-FLIGHT
TRAINERS.

AD- 378 903

CARRIER LANDINGS

KINETIC CUEING IN SIMULATED
CARRIER APPROACHES.

AD- 817 889

KINETIC CUEING IN SIMULATED
CARRIER APPROACHES. SUPPLEMENT I.
STUDY DETAILS.

AD- 818 756

COMPUTERS

PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION.
II. VARIATIONS IN AERODYNAMIC
COEFFICIENTS.

AD- 855 837

DESIGN

HUMAN FACTORS TECHNOLOGY IN THE
DESIGN OF SIMULATORS FOR OPERATOR
TRAINING.

AD- 432 028

A MECHANICAL DESCRIPTION OF A
DEVICE REPRODUCING THE AIRCRAFT AND
SHIP COURSES.

AD- 473 704

CONCEPT FORMULATION REPORT,
SYNTHETIC FLIGHT TRAINING SYSTEM
DEVICE 2B24.

AD- 873 982

CONCEPT FORMULATION REPORT,
SYNTHETIC FLIGHT TRAINING SYSTEM,
AH-58/CH-47 (ADDENDUM).

AD- 878 409

Preliminary Design Data Items 1A
and 1B Basic Motion Device and
Screen Structure.

AD- 858 384

Preliminary Design Data Item 1C
Basic Motion Device Electrical
System.

AD- 858 385

Preliminary Design Data Item 1D
Inter-Coordination Techniques of
Basic Motion Device.

AD- 858 366

Device 2-FH-4, Item 11.

AD- 857 476

Design Factors in Environmental
Simulation.

AD- 880 048

DIGITAL COMPUTERS

Software Documentation for the
Research Tool Digital Computer
System. Volume II. Program
Report.

AD- 891 391L

DIGITAL SYSTEMS

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME I. TECHNICAL
REPORT.

AD- 387 843

DISPLAY SYSTEMS

THE DEVELOPMENT, APPLICATION,
AND STUDY OF THE POINT LIGHT SOURCE
TECHNIQUE DEVICE 2FH4.

AD- 435 847

EFFECTIVENESS

AN EVALUATION OF THE LINK SNJ
OPERATIONAL TRAINER AS AN AID IN
CONTACT FLIGHT TRAINING.

AD- 837 821

AUDIO AIDS TO BLIND FLYING AND A
SCORING DEVICE FOR THE LINK
TRAINER.

AD- 857 484

An Evaluation of the Training
Effectiveness of Device 2F90, TA-4J
Operational Flight Trainer. Part I:
The B Stage.

AD- 750 248

Special Devices in Primary
Flight Training: Their Training
and Selection Value. A Summary
Report.

AD- 784 033

Man-The Focus of the Training
System. Proceedings of the Naval
Training Equipment Center and
Industry Conference (8th), Held on
November 13-15, 1973.

AD- 788 756

EQUATIONS

SPLIT FUNCTION GENERATION STUDY.

AD- 855 107

FLOW CHARTING

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME II - FLOW CHARTS.
PART I.

AD- 387 844

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME III - SYMBOLS.

AD- 387 848

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME IV - INPUT/OUTPUT
REQUIREMENTS.

AD- 387 847

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME I - FLOW CHARTS.
PART II.

AD- 474 521

HELICOPTERS

SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME IV.
HELICOPTER ANALYSIS REPORT. STUDY:
FEASIBILITY OF REDUCTION IN NUMBER
OF AZIMUTH STATIONS USED IN
HELICOPTER ROTOR SIMULATION.

AD- 811 412

CONCEPT FORMULATION REPORT:

SUBJECT INDEX-27
UNCLASSIFIED FQP40C

FLI-FLI

UNCLASSIFIED

SYNTHETIC FLIGHT TRAINING SYSTEM.
AD- 675 505
SYNTHETIC FLIGHT TRAINING SYSTEM
(SFTS) CONCEPT FORMULATION REPORT.
AD- 675 506

HUMAN FACTORS ENGINEERING
Motion in Flight Training: A
human Factors View.
AD- 880 445

INSTRUMENT FLIGHT
STUDY AND DEVELOPMENT OF METHODS
FOR SIMULATED BLIND FLYING, PHASE
A. REVIEW OF METHODS.

AD- 860 000
STUDY AND DEVELOPMENT OF
EQUIPMENT FOR SIMULATING BLIND
FLYING. PHASE B. FIELD SURVEY.
AD- 860 005
STUDY OF CERTAIN EQUIPMENT USED
IN SIMULATED BLIND FLYING. PHASE
C. EXPERIMENTAL STUDY.

AD- 860 024
STUDY AND DEVELOPMENT OF
EQUIPMENT FOR SIMULATING BLIND
FLYING. PHASE D.

AD- 860 025
STUDY AND DEVELOPMENT OF
EQUIPMENT FOR SIMULATING BLIND
FLYING.

AD- 860 026

JET FIGHTERS
PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION:
III. PERFORMANCE OF NON-JET
EXPERIENCED PILOTS VERSUS
SIMULATION FIDELITY.
AD- 675 825

LANDING
MODIFICATION 1-CA-2 HEADING
SYSTEM.
AD- 838 347

MATHEMATICAL MODELS
Software Documentation for the
Research Tool Digital Computer
System. Volume I. Math Model
Report.

AD- 891 483L

PERFORMANCE(ENGINEERING)
Motion Factors in Flight
Simulation.
AD- 880 341

PILOTS
A Survey of Selected Visual
Simulation Systems.
AD- 907 481L

PROGRAMMED INSTRUCTION
Automated Weapon System Trainer.
AD- 872 854

SPECIFICATIONS
STUDY, SURVEY OF HELICOPTER AND
V/STOL AIRCRAFT SIMULATOR TRAINER
DYNAMIC RESPONSE. VOLUME III.
SUGGESTED GUIDE FOR A FUNCTIONAL
TEST SPECIFICATION FOR HELICOPTER
AND V/STOL AIRCRAFT FLIGHT
TRAINERS.
AD- 667 722

STANDARDS
STUDY, SURVEY OF HELICOPTER AND
V/STOL AIRCRAFT SIMULATOR TRAINER
DYNAMIC RESPONSE. VOLUME I.
DYNAMIC RESPONSE CRITERIA FOR
ROTARY WING AIRCRAFT FLIGHT
TRAINERS.

AD- 868 005
STUDY, SURVEY OF HELICOPTER AND
V/STOL AIRCRAFT SIMULATOR TRAINER
DYNAMIC RESPONSE. VOLUME II.
DYNAMIC RESPONSE CRITERIA FOR
V/STOL AIRCRAFT FLIGHT TRAINERS.
AD- 868 006

TERRAIN AVOIDANCE
Evaluation of Data Compression
Techniques for Radar Landmass
Terrain Data.

AD- 750 895
Radar Landmass Simulation
Computer Programming (Interim
Report).
AD- 755 722

Simulation of a Digital Radar

SUBJECT INDEX-28
UNCLASSIFIED FQP40C

Landmass Simulator.
AD- 756 219

TEST EQUIPMENT
APPLICATION OF DYNAMIC TEST
TECHNIQUES TO WEAPON SYSTEM
TRAINERS.
AD- 484 396

TRAINING DEVICES
USING A GENERALIZED CONTACT
FLIGHT SIMULATOR TO IMPROVE VISUAL
TIME-SHARING.

AD- 819 047
OPTIMIZATION OF AERODYNAMIC
EQUATIONS.

AD- 830 268
STUDY, ASSESSMENT OF PILOT
PROFICIENCY.
AD- 637 659
Instructor Console Instrument
Simulation.
AD- 731 739

TRAINING PLANES
Simulation of T-28 Aircraft.
AD- 754 741

*FLIGHT SIMULATORS
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226

*FLIGHT SURGEONS
AVIATION MEDICAL SAFETY
TRAINING. PROCEDURES, FINDINGS AND
RECOMMENDATIONS

AD- 149 500
AVIATION MEDICAL SAFETY
TRAINING: RECOMMENDED TRAINING AIDS
AND DEVICES

AD- 150 185
AVIATION MEDICAL SAFETY
TRAINING. COURSE CONTENT MATERIALS
FOR TRAINING NAVAL FLIGHT SURGEONS
AD- 150 818

*FLIGHT TESTING
An Annotated Bibliography of

FLI-FLI

UNCLASSIFIED

Objective Pilot Performance Measures.
AD-A113 170

*FLIGHT TRAINING

Automated Flight Training (AFT).
GCI/CIC Air Attack.
AD- 772 593
Training Analysis of P-3 Replacement Pilot and Flight Engineer Training.
AD- 773 745
Training Situation Analysis Study for the T-34C Expanded Primary Flight Training Phase.
AD-A002 258
Adaptive Training of Manual Control: Performance Measurement Intervals and Task Characteristics.
AD-A019 233
Evaluation of an Automated Flight Training System: Ground Controlled Approach Module (GCAM).
AD-A021 533
Research on High-Level Adaptive Training Systems.
AD-A022 291
Instructor Pilot's Role in Simulator Training.
AD-A023 548
Higher Order Adaptive Training Systems.
AD-A023 594
Development and Evaluation of Trainee Performance Measures in an Automated Instrument Flight Maneuvers Trainer.
AD-A024 517
A7E Transfer of Training Effectiveness: Device 2C15A CPT and Device 2F84B OFT/WST.
AD-A027 891
Training Situation Analysis for the Advance Helicopter Flight Training Phase.
AD-A032 771
Training Effectiveness Evaluation of Device 2F87F, P-3C Operational Flight Trainer.
AD-A035 771
E-2 C Systems Approach to

Training. Phase I.
AD-A036 284
Current Simulator Substitution Practices in Flight Training.
AD-A036 875
A-6E Systems Approach to Training. Phase I.
AD-A037 488
Navy Undergraduate Pilot Training Jet Pipeline Training Situation Analysis.
AD-A046 853
Automated Weapon System Trainer: Expanded Adaptive Module for Basic Instrument Flight Maneuvers.
AD-A048 498
Utilization of Device 2F87F Of to Achieve Flight Hour Reductions In P-3 Fleet Replacement Pilot Training.
AD-A053 850
U.S. Navy Fleet Aviation Training Program Development.
AD-A055 788
A7 Training Effectiveness Through Performance Analysis.
AD-A056 230
Navy Training Command Naval Flight Officer Training Situation Analysis.
AD-A058 392
SH-2F LAMPS Instructional Systems Development. Phase II.
AD-A058 793
Instructor Pilot's Role in Simulator Training. Phase III.
AD-A061 732
Functional Design of an Automated Instructional Support System for Operational Flight Trainers.
AD-A065 573
Revising the SH-2F (LAMPS MKI) Instructional System Within the Framework of Instructional Systems Development.
AD-A065 925
Predictor Displays in Carrier Landing Training.
AD-A069 890
Training Considerations in

Support of Refurbishment of Device 2F69D for the Naval Reserve.
AD-A070 780
Air Combat Maneuvering Performance Measurement.
AD-A077 429
E-2 Systems Approach to Training: Development, Implementation, Evaluation, and Revision.
AD-A080 428
Operational Performance of P-3 Pilots as a Function of Variations in Fleet Readiness Training.
AD-A088 883
Critical Research Issues and Visual System Requirements for a V/STOL Training Research Simulator.
AD-A092 561
F-14 Instructional System Development Program.
AD-A093 767
Computer Aided Training Evaluation and Scheduling (CATES) system: Assessing Flight Task Proficiency.
AD-A095 007
Applications of Advanced Experimental Methods to Visual Technology Research Simulator Studies: Supplemental Techniques.
AD-A095 833
Development of the Automated Performance Assessment and Remedial Training System (APARTS): A Landing Signal Officer Training Aid.
AD-A106 224
Preparation and Design for a Training Effectiveness Evaluation of Device 2F84C for Replacement Pilot Training.
AD-A106 939
Conceptual Development of a Preliminary LSO Carrier Landing Training Aid.
AD-A107 002
An Analysis of Microcomputer Technology for Application to Real-Time Trainers.
AD-A108 744
Performance Measurement and the

SUBJECT INDEX-29
UNCLASSIFIED FQP40C

FLI-FLI

UNCLASSIFIED

Navy's Tactical Aircrew Training System (TACTS).
AD-A110 869
Unconventional Visual Displays for Flight Training.
AD-A111 392
Improved Procedures Training through Use of Aids Developed from Learning Guidelines.
AD-A113 109
Computer Program for Analysis of Spherical Screen Distortion.
AD-A113 138
Techniques for Measuring the Utilization of Major Aviation Training Devices in Terms of Cost and Application Style.
AD-A951 019

*FLUE GASES
Stack Gas Measurement of Burning Propane Gas for an Experimental Fire Fighting Trainer.
AD- 781 886

*FOOD SERVICE PERSONNEL
Evaluation of Mess Management Specialist (MS) 'A' School Training by Advanced MS NAVEDTRACOM Students and by Fleet MS Personnel.
AD-A079 558

*FORWARD LOOKING INFRARED SYSTEMS
Forward Looking Infrared Simulation.
AD- 785 248

*FREQUENCY ANALYZERS
A FUNDAMENTAL FREQUENCY RECORDER FOR COMPLEX SOUNDS
AD- 045 504

AUDIOMETRY
THE PURDUE PITCH METER--A DIRECT-READING FUNDAMENTAL FREQUENCY ANALYZER.
AD- 839 087

*FRESNEL LENSES
Computer Simulation of Fresnel Lens Optical Landing System.

AD-A038 458

*FUEL OIL
FIRES
Analysis of Stack Gases for Natural and Treated Fuel-Oil Fires.
AD- 881 530

*FUEL SYSTEMS
Feasibility Demonstration of a Non-Pollutant Synthetic Fire Fighting Trainer.
AD-A003 011

*FUELS
DETONATORS
FUELS FOR SMALL ARMS NOISE SIMULATORS. DEVICE 3C85D.
AD- 630 278

SMOKE GENERATORS
LUMINESCENT SMOKE GENERATION FEASIBILITY STUDY.
AD- 875 503

*GALLIUM ARSENIDE LASERS
Laser Man Versus Man Weapon Fire Simulation.
AD- 770 819
Trainer Engineering Report (Final) for MILES. Volume I. Revision.
AD-A102 278
Trainer Engineering Report (Final) for MILES. Volume II. Revision.
AD-A102 277

*GAME THEORY
WARFARE
STUDY OF COMPUTERS TO IMPROVE COMMAND POST EXERCISES.
AD- 828 749

*GAS LASERS
DISPLAY SYSTEMS
Gas Lasers in Weapon Firing Simulator.
AD- 844 286

*GEOMETRIC FORMS

ATTITUDES(PSYCHOLOGY)
Aesthetic Preference for Isosceles Triangles.
AD- 764 032

BRIGHTNESS
SOME EFFECTS OF SHAPE ON APPARENT BRIGHTNESS.
AD- 840 098

TARGET DISCRIMINATION
THE VISUAL DISCRIMINATION OF GEOMETRIC FORMS.
AD- 840 095
DISCRIMINABILITY BETWEEN GEOMETRIC FIGURES UNDER COMPLEX CONDITIONS.
AD- 840 098

*GLIDE SLOPE
Glide Slope Descent-Rate Cuing to Aid Carrier Landings.
AD-A092 193

*GROUND CONTROLLED APPROACH RADAR
Use of Computer Speech Understanding in Training: A Demonstration Training System for the Ground Controlled Approach Controller.
AD-A033 327
Ground Controlled Approach Controller Training System (GCA-CTS) System Documentation.
AD-A087 190
Ground Controlled Approach Controller Training System (GCA-CTS).
AD-A092 719

*GROUND CONTROLLED INTERCEPTION
Ground Controlled Approach Controller Training System Training/Functional Design Report.
AD-A089 056
Behavioral Objective for Air Intercept Controller Prototype Training System.
AD-A107 001
Functional Requirement for Air Intercept Controller Prototype

SUBJECT INDEX-30
UNCLASSIFIED FQP40C

FLU-GRO

UNCLASSIFIED

Training System.
AD-A114 318

*GROUND EFFECT MACHINES
TRAINING
PRELIMINARY INVESTIGATION OF
TRAINING REQUIREMENTS FOR AIR
CUSHION VEHICLE (ACV) OPERATORS.
AD- 809 384

*GROUND SUPPORT EQUIPMENT
HUMAN FACTORS SUPPORT IN THE
DESIGN AND USE OF THE REDSTONE FIRE
UNIT PROFICIENCY ANALYSER,
AD- 490 890

*GROUP DYNAMICS
TEAM TRAINING II: INDIVIDUAL
LEARNING AND TEAM PERFORMANCE
AD- 247 147
HUMAN FACTOR ANALYSIS OF TEAM
TRAINING (U)
AD- 315 350

ANTISUBMARINE WARFARE
COMMUNICATIONS AS A MEASURABLE
INDEX OF TEAM BEHAVIOR.
AD- 823 135

GUNNERY
A STUDY OF SELECTED FACTORS
AFFECTING THE MEASUREMENT OF TOTAL
TEAM PRODUCT IN GUNFIRE SUPPORT
TRAINING.
AD- 843 830

NAVAL TRAINING
LABORATORY RESEARCH ON TEAM
TRAINING.
AD- 485 638
Automated Operator Instruction
in Team Tactics.
AD- 738 970

TRANSFER OF TRAINING
Application of Decision Making
and Team Training Research to
Operational Training. A
Translative Technique.
AD- 871 984

*GUIDED MISSILE LAUNCHING
HUMAN FACTORS SUPPORT IN THE
DESIGN AND USE OF THE REDSTONE FIRE
UNIT PROFICIENCY ANALYSER,
AD- 490 890

*GUIDED MISSILE PERSONNEL
HUMAN FACTORS RECOMMENDATIONS
FOR THE REDSTONE MISSILE FIRE UNIT
PROFICIENCY ANALYSER
AD- 130 703
APPENDIX TO THE INSTRUCTOR-
UMPIRE GUIDE FOR THE PROTOTYPE FIRE
UNIT PROFICIENCY ANALYSER
AD- 302 868
Test Exercises for the Prototype
Fire Unit Proficiency Analyser.
Test Exercise Number 2.
AD- 303 119
Test Exercises for the Prototype
Fire Unit Proficiency Analyser.
Test Exercise Number 1.
AD- 303 120
HUMAN FACTORS RECOMMENDATIONS
FOR THE SHOREBASED ASROC TRAINER
(DEVICE X14A2)
AD- 305 428

*GUIDED MISSILE SIMULATORS
HUMAN ENGINEERING ASSISTANCE FOR
SHIPBOARD SIMULATION EQUIPMENT
(X19A SERIES)
AD- 314 013

*GUIDED MISSILES
AD- 049 973
HUMAN FACTORS RECOMMENDATIONS
FOR THE REDSTONE MISSILE FIRE UNIT
PROFICIENCY ANALYSER
AD- 130 703

CAMOUFLAGE
CAMOUFLAGE OF MISSILES.
FUNDAMENTAL LIMITATIONS OF
CAMOUFLAGE WITH ABSORBING
MATERIALS.
AD- 483 794

SYMPOSIA

Joint AIAA/AOA Tactical Missiles
Meeting, March 28-30, 1973.
AD- 526 570

*GUNNERY
PERFORMANCE ON A TRACKING TASK
SIMULATING FIXED GUNNERY AS A
FUNCTION OF INSTRUCTIONS AND
DIFFICULTY LEVEL OF INITIAL
TRAINING
AD- 113 744
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-AIR
GUNNERY TRAINING
AD- 235 882

NAVAL PERSONNEL
A STUDY OF SELECTED FACTORS
AFFECTING THE MEASUREMENT OF TOTAL
TEAM PRODUCT IN GUNFIRE SUPPORT
TRAINING.
AD- 843 830

TRAINING DEVICES
Laser Weapon Fire Simulator
Using Retroreflective Targets.
AD- 749 951

*GUNNERY TRAINERS
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-AIR
GUNNERY TRAINING
AD- 235 882
INVESTIGATION OF 380-DEGREE
NONPROGRAMMED VISUAL PRESENTATION,
AD- 291 468
PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 872 587
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Laser Air-to-Air Gunnery
Trainer. I. Introduction of a
Semiconductor Laser System
Providing Gunnery Training Without
Need for an Operational Weapon and
Ammunition.

SUBJECT INDEX-31
UNCLASSIFIED FQP40C

GRO-GUN

UNCLASSIFIED

AD- 779 256
 Proceedings of the Third Naval
 Training Device Center and Industry
 Conference 19-21 November 1968.
 AD- 854 363
 Air-to-Air Gunnery Trainer
 Utilizing a Semiconductor Laser.
 AD-A021 514
 Laser Helicopter Gunner Trainer.
 AD-A024 836
 Performance Correlates of the
 Dragon Training Equipment and the
 Dragon Weapon System.
 AD-A024 903
 Evaluation of the Weaponner
 Marksmanship Training Device
 (Recoil, Point-of-Aim, Power).
 AD-A037 549
 Military Weapon Simulators
 Utilizing Visible Wavelength
 Lasers.
 AD-A042 120
 MAGLAD Effective Simulation,
 Range and Alignment Tolerance
 Demonstration Test Plan.
 AD-A092 267
 MAGLAD. Trainer Engineering
 Report Demonstration Results.
 AD-A092 477
 Trainer Engineering Report
 (Final) for MILES. Volume I.
 Revision.
 AD-A102 276
 Trainer Engineering Report
 (Final) for MILES. Volume II.
 Revision.
 AD-A102 277
 Universal Infantry Weapons
 Trainer (UIWT). Volume I. M-16
 Rifle Model.
 AD-A103 725
 ANALYSIS
 EVALUATION AND UTILIZATION
 STUDIES OF A NON-FLIGHT TRAINING
 DEVICE.
 AD- 846 708
 DESIGN
 A STUDY OF THE UTILIZATION AND
 DESIGN OF THE SPECIAL DEVICES

CENTER MARK 18 MODEL 6 GUNSIGHT
 TRAINER (DEVICE 3-A-40B PROTOTYPE).
 AD- 656 833
 EFFECTIVENESS
 RANGING TRACKING AIMING POINT
 ASSESSOR.
 AD- 639 036
 RANGING TRACKING AIMING POINT
 ASSESSOR DEVICE 3-E-7.
 AD- 639 038
 EVALUATION OF GUNNERY TRAINING
 DEVICES - DEVICES 3-E-7 AND 3-A-40.
 AD- 639 039
 ARMY MARKSMANSHIP AND GUNNERY
 TRAINING. I. TRAINING
 REQUIREMENTS FOR INDIVIDUAL
 WEAPONS.
 AD- 642 391
 HUMAN FACTORS ENGINEERING
 TRAINING 90 MM AA GUN CREWS.
 APPENDIX IV. TRAINING AIDS AND
 DEVICES.
 AD- 857 947
 LASERS
 SIMULATOR, WEAPON, FIRING AND
 RANGING (LASER) SYSTEM.
 AD- 819 184
 LASER APPLICATION AVIATION
 ORDNANCE STUDY.
 AD- 834 917
 Laser Weapon Fire Simulator
 Using Retroreflective Targets.
 AD- 749 951
 LEARNING
 PRELIMINARY REPORT ON FIXED
 GUNNERY SLIDE FILM DEFLECTION
 TRAINER (3-C-9).
 AD- 639 276
 MEMORANDUM ON PROGRESS OF
 LEARNING STUDY ON AERIAL GUNNERY
 TRAINING DEVICE 3-A-2.
 AD- 639 277
 AN EXPERIMENTAL STUDY OF
 LEARNING ON THE AERIAL GUNNERY
 TRAINING DEVICE 3-A-2.
 AD- 639 278

NAVAL GUNNERY
 Study, Large-Screen Quick-Stop
 Projector.
 AD- 754 742
 PERFORMANCE(HUMAN)
 MEMORANDUM ON THE USE OF THE
 CORRECT POINTOF-AIM IN GUNNERY
 TRAINING DEVICES.
 AD- 639 278
 SURFACE TO AIR MISSILES
 FIBER OPTICS REMOTE SIGHT FOR
 ASSESSMENT OF GUNNER PERFORMANCE.
 AD- 871 073
 TANKS(COMBAT VEHICLES)
 Main Battle Tank - 70 (MBT-70)
 Training Device Requirements Study.
 AD- 395 927L
 TEACHING METHODS
 AN EXPERIMENTAL STUDY OF THE
 EFFECTIVENESS OF VARIOUS TRAINING
 PROCEDURES USED WITH THE AERIAL
 GUNNERY TRAINING DEVICES 3-A-35 AND
 3-A-2.
 AD- 639 275
 *HAND CRANKS
 PERFORMANCE(HUMAN)
 STUDIES IN COMPLEX COORDINATION.
 II. PERFORMANCE OF THE TWO-HAND
 COORDINATOR AS A FUNCTION OF THE
 RELATIONS BETWEEN DIRECTION OF
 ROTATION OF CONTROLS AND DIRECTION
 OF MOVEMENT OF DISPLAY.
 AD- 640 042
 *HANDBOOKS
 ENERGY CONVERSION SYSTEMS
 REFERENCE HANDBOOK. VOLUME X-
 REACTOR SYSTEM DESIGN
 AD- 258 884
 IMPROVEMENT OF FLIGHT HANDBOOKS
 AD- 268 704
 MILITARY REQUIREMENTS
 Analysis and Evaluation of Navy
 Avionics Manuals.
 AD- 880 414

SUBJECT INDEX-32
 UNCLASSIFIED FQP40C

HAN-HAN

UNCLASSIFIED

SPECIFICATIONS

Military Specification for Preparation of NATOPS Flight Manuals.

AD- 857 295

Development of a Military Specification for NATOPS Flight Manuals.

AD- 859 345

TRAINING

TRAINING ANALYSIS PROCEDURE (TAP) VOLUME II. HANDBOOK FOR APPLICATION.

AD- 436 258

TRAINING DEVICES

GUIDELINES FOR TRAINING SITUATION ANALYSIS (TSA).

AD- 472 155

Handbook for Training Systems Evaluation.

AD- 885 751

*HAZARDS

TRAINING AMMUNITION

Clothing Penetration Tests for the M-16 Training Cartridge.

AD- 736 198

*HEAD UP DISPLAYS

HOLOGRAPHY

Heads Up Display System Using Nonparaxial Holographic Lenses.

AD- 769 117

*HEARING

THE RELATIVE EFFICIENCY OF MONAURAL VERSUS BINAURAL LISTENING IN VARIOUS LEVELS OF NOISE

AD- 109 246

AN INVESTIGATION OF MONAURAL AND BINAURAL AUDITORY DISCRIMINATION IN NOISE

AD- 125 185

SENSORY INTERACTION AND RESPONSE CAPACITY

AD- 225 517

RELATIVE EFFECTIVENESS OF PRESENTING INFORMATION TO SELECTED SENSE MODALITIES

AD- 251 450

AUDIOMETRY

STUDIES IN SPEECH RECEPTION

TESTING.

AD- 639 090

PERFORMANCE(HUMAN)

THE RELATION BETWEEN DURATION OF EXPOSURE TO HIGH LEVEL NOISE AND LISTENER ACCURACY.

AD- 639 103

REVIEWS

HEARING.

AD- 646 812

STIMULATION(PHYSIOLOGY)

THE EFFECTS OF INDUCED MUSCLE TENSION AND AUDITORY STIMULATION ON TACHISTOSCOPIC PERCEPTION.

AD- 631 840

THRESHOLDS(PHYSIOLOGY)

AUDITORY THRESHOLDS OF SHORT TONES AS A FUNCTION OF REPETITION RATES.

AD- 639 682

THRESHOLDS(PHYSIOLOGY). (*ACOUSTIC PR

THE EFFECT OF FREQUENCY SPECTRUM ON TEMPORAL INTEGRATION OF ENERGY IN THE EAR.

AD- 639 686

*HEAT

PERFORMANCE(HUMAN)

THE EFFECT OF HEAT UPON THE PERFORMANCE OF MEN IN HIGH SPEED AIRCRAFT: A CRITICAL REVIEW.

AD- 657 482

*HEAT RESISTANT METALS + ALLOYS

HIGH STRENGTH TUBULAR CATHODES FOR ELECTRON TUBES

AD- 070 780

*HEIGHT FINDING

THE EFFECT ON ACO PERFORMANCE OF FOUR AIRBORNE CIC HEIGHT FINDING PROCEDURES

AD- 050 779

*HELICOPTER ROTORS

A PRELIMINARY STRUCTURAL STUDY OF THE EFFECT OF VARIOUS PARAMETERS, INCLUDING SECTION THICKNESS, ON A SUPERSONIC TIP SPEED HELICOPTER ROTOR

AD- 056 736

OPTICAL TRACKING SYSTEMS

HELICOPTER MAIN ROTOR BLADE TRACKING DEVICE.

AD- 436 273

SIMULATION

SIMULATION OF HELICOPTER AND V/STOL AIRCRAFT. VOLUME IV. HELICOPTER ANALYSIS REPORT. STUDY: FEASIBILITY OF REDUCTION IN NUMBER OF AZIMUTH STATIONS USED IN HELICOPTER ROTOR SIMULATION.

AD- 611 412

SIMULATION OF HELICOPTER AND V/STOL AIRCRAFT. VOLUME V. SUMMARY OF FINAL RESULTS.

AD- 615 452

*HELICOPTERS

STUDY OF HELICOPTER FLIGHT AND TACTICS TRAINING

AD- 120 153

EVALUATION OF TRAINING

EFFECTIVENESS OF THE 2-FH-2 HELICOPTER FLIGHT TRAINER RESEARCH TOOL

AD- 125 465

THE APPLICATION OF POINT SOURCE PROJECTION TECHNIQUES TO HELICOPTER LOW-ALTITUDE NAVIGATION TRAINING

AD- 235 880

EVALUATION OF EXPERIMENTAL POINT SOURCES AND TRANSPARENCES FOR HELICOPTER HOVERING FLIGHT SIMULATION DEVICE 2FH2

AD- 235 883

Training Situation Analysis for the Advance Helicopter Flight Training Phase.

AD-A032 771

An Optimal Control Model

SUBJECT INDEX-33
UNCLASSIFIED FQP40C

HAZ-HEL

UNCLASSIFIED

Analysis of Data from a Simulated
Hover Task.
AD-A099 895

ADAPTIVE CONTROL SYSTEMS
SYNTHETIC FLIGHT TRAINING SYSTEM
AH-56/CH-47, CONCEPT FORMULATION
REPORT (ADDENDUM).
AD- 678 651

FLIGHT SIMULATORS
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME II. V/STOL
ANALYSIS REPORT. STUDY, EQUATIONS
OF MOTION OF VERTICAL/SHORT TAKE-
OFF AND LANDING OPERATIONAL
FLIGHT/WEAPON SYSTEM TRAINERS.
AD- 602 427

SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME IV.
HELICOPTER ANALYSIS REPORT. STUDY:
FEASIBILITY OF REDUCTION IN NUMBER
OF AZIMUTH STATIONS USED IN
HELICOPTER ROTOR SIMULATION.
AD- 611 412

STUDY, SURVEY OF HELICOPTER AND
V/STOL AIRCRAFT SIMULATOR TRAINER
DYNAMIC RESPONSE. VOLUME I.
DYNAMIC RESPONSE CRITERIA FOR
ROTARY WING AIRCRAFT FLIGHT
TRAINERS.
AD- 668 005

CONCEPT FORMULATION REPORT:
SYNTHETIC FLIGHT TRAINING SYSTEM.
AD- 675 505
SYNTHETIC FLIGHT TRAINING SYSTEM
(SFTS) CONCEPT FORMULATION REPORT.
AD- 675 506

MATHEMATICAL MODELS
Dynamics Report for CH-48A (HRB-
1) Helicopter OFT Device 2F75 and
2F75A.
AD- 862 632

SIMULATION
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME I:
HELICOPTER ANALYSIS REPORT.
AD- 801 022
SIMULATION OF HELICOPTER AND

V/STOL AIRCRAFT. VOLUME III, PART
I. COMPUTATIONAL METHODS ANALOG.
STUDY, EQUATIONS OF MOTION OF
VERTICAL/SHORT TAKE-OFF AND LANDING
OPERATIONAL FLIGHT/WEAPON SYSTEM
TRAINERS.

AD- 807 737
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME III, PART
II. COMPUTATIONAL METHODS DIGITAL.
STUDY, EQUATIONS OF MOTION OF
VERTICAL/SHORT TAKE-OFF AND LANDING
OPERATIONAL FLIGHT/WEAPON SYSTEM
TRAINERS.

AD- 607 738
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME V.
SUMMARY OF FINAL RESULTS.
AD- 815 452

TRAINING DEVICES
ENVIRONMENTAL EFFECTS REPORT FOR
HELICOPTER INSTRUMENT TRAINER
DEVICE 2B10A.

AD- 669 671
DYNAMICS REPORT FOR HELICOPTER
INSTRUMENT TRAINER DEVICE 2B10A.
AD- 669 834

*HELMETS
COMMUNICATION SYSTEMS
EVALUATION OF THE PRIMARY FLIGHT
HELMET, DEVICE 12-BK-8 (IMPACT-
AUDIBLE SIGNAL SYSTEM FOR FLIGHT
TRAINING).
AD- 857 474

*HIGH ALTITUDE
Analysis of an Altitude Control
System for a High Altitude Rapid
Decompression Chamber.
AD-A006 568

*HIGH LEVEL LANGUAGES
Preliminary Specification of
Real-Time PASCAL.
AD-A031 451
Language Design Using
Decompilation.
AD-A069 177

*HISTORY
Naval Training Device Center
25th Anniversary Commemorative
Technical Journal,
AD- 735 487

*HOLOGRAMS
Cylindrical Holograms for Target
Recognition Training.
AD-A042 430

*HOLOGRAPHY
Investigation of Cineholographic
System Characteristics. I.
Theoretical Treatment of Special
Holographic Techniques used in
Cineholography.

AD- 776 552
Aberrations in Holographic
Lenses.
AD- 782 509
Evaluation of a Dual Axis
Holographic Lens.
AD-A002 253
Holographic Heads-Up Display for
Naval Aviation Training.
AD-A011 819
Holographic Terrain Simulation.
AD-A053 472

HEAD UP DISPLAYS
Heads Up Display System Using
Nonparaxial Holographic Lenses.
AD- 769 117

*HOUSING(DWELLINGS)
Design Concepts for Semi-Oper
Bay Barracks for Use by Navy 'A'
school Students.
AD-A103 578

*HOVERING
An Optimal Control Model
Analysis of Data from a Simulated
Hover Task.
AD-A099 895
The Effects of Various Fidelity
Factors on Simulated Helicopter
Hover.
AD-A102 028

SUBJECT INDEX-34
UNCLASSIFIED FQP40C

HEL-HOV

UNCLASSIFIED

- *HUMAN
 - SUBMARINE SIMULATORS
 - TRAINING EFFECTIVENESS AS A FUNCTION OF SIMULATOR COMPLEXITY, AD- 410 239
- *HUMAN ENGINEERING
 - CONSTRUCTION OF THE 1953 FORM OF THE EVALUATION PROCEDURE FOR TRAINING AIDS AND DEVICES AD- 221 526
 - THE ECM STATION OF THE PO-2W. AD- 377 646
 - CREW TRAINING, EQUIPMENT, AND OPERATING CONDITIONS IN CURRENT ASW HEAVIER-THAN-AIR AIRCRAFT: AN EXPLORATORY STUDY. AD- 378 181
 - HUMAN FACTORS SUPPORT IN THE DESIGN AND USE OF THE REDSTONE FIRE UNIT PROFICIENCY ANALYSER, AD- 490 890
 - TRAINING DEVICES
 - Human Factors Inputs to the Training Device Design Process. AD- 734 844
- *HUMAN FACTORS ENGINEERING
 - ACD PERFORMANCE AS A FUNCTION OF NUMBER OF SIMULTANEOUS RAIDS AND TIME AVAILABLE FOR INTERCEPTION AD- 043 900
 - AN EXPERIMENTAL INVESTIGATION OF THE VALIDITY OF AN EMPIRICAL MEASURE OF THREAT OF ENEMY RAIDS USING ACD PERFORMANCE AS A CRITERION AD- 043 981
 - THE EFFECT OF NUMBER OF AIR CONTROLLERS ON THE AIR INTERCEPT CONTROL PERFORMANCE OF THE AIRBORNE CIC AD- 065 246
 - THE EFFECT OF OVERLAPPING RAID SITUATIONS ON ACD INTERCEPT PERFORMANCE AD- 065 247
 - HANDBOOK OF HUMAN ENGINEERING DATA. CLASSIFIED SUPPLEMENT AD- 060 917
- AN EXPERIMENTAL EVALUATION OF THREE AEW-INTERCEPT SYSTEMS IN THE AIRBORNE CIC AD- 081 025
- THE EFFECTS ON PERFORMANCE OF A COMPENSATORY TRACKING TASK OF INTERCHANGING THE CONTROL OF THE AXES OF MOVEMENT BETWEEN THE HANDS AD- 110 963
- HUMAN ENGINEERING CONSIDERATIONS IN THE DESIGN OF THE INSTRUCTOR'S STATION OF TRAILERIZED OPERATIONAL FLIGHT TRAINERS AD- 116 027
- HUMAN ENGINEERING CONSIDERATIONS OF THE DESIGN OF THE INSTRUCTOR CONSOLE OF THE MODIFIED UNDERSEA WARFARE TACTICAL TRAINER (DEVICE RS-8A) AD- 142 877
- THE VALIDITY OF PREDICTION FROM LABORATORY EXPERIMENTS TO NAVAL OPERATIONAL SITUATIONS IN THE AREA OF HUMAN ENGINEERING AND SYSTEMS RESEARCH AD- 143 295
- HUMAN FACTORS IN MAINTENANCE. PART1. AN INVESTIGATION OF MAINTENANCE PROBLEMS OF A REPRESENTATIVE TRAINING DEVICE AD- 159 627
- SENSORY INTERACTION AND RESPONSE CAPACITY AD- 225 517
- TRACKING PERFORMANCE RELATED TO DISPLAY CONTROL CONFIGURATIONS AD- 228 749
- INFORMATION INPUT AND PROCESSING VARIABLES IN MAN MACHINE SYSTEMS: A REVIEW OF THE LITERATURE AD- 230 997
- A TRAINING ANALYSIS OF THE PILOT'S TASK IN TRANSITIONING TO JET VTOL AIRCRAFT AD- 231 477
- MAINTAINABILITY HANDBOOK FOR ELECTRONIC EQUIPMENT DESIGN AD- 241 284
- ANTHROPOMETRY OF ONE HANDED MAINTENANCE ACTIONS AD- 241 406
- AN EXPERIMENTAL INVESTIGATION OF EQUIPMENT PACKAGING FOR EASE IN MAINTENANCE AD- 241 571
- DESIGN FOR MAINTAINABILITY AD- 241 901
- RELATIVE EFFECTIVENESS OF PRESENTING INFORMATION TO SELECTED SENSE MODALITIES AD- 251 450
- AN ANALYSIS OF THE MAINTENANCE SUPPORT SYSTEM AD- 265 884
- HUMAN ENGINEERING ASSISTANCE FOR SHIPBOARD SIMULATION EQUIPMENT (X19A SERIES) AD- 314 013
- HUMAN FACTOR ANALYSIS OF TEAM TRAINING (U) AD- 315 350
- Decision Making and Training: A Review of Theoretical and Empirical Studies of Decision Making and Their Implications for the Training of Decision Makers. AD-A014 490
- Annotated Bibliography of Human Factors Laboratory Reports (1945-1988). Supplement Number 2, 1973-1975. AD-A025 179
- Requirements for Color in Television Displays. AD-A026 747
- Delay of Visual Feedback in Aircraft Simulators. AD-A037 839
- Annotated Bibliography of Human Factors Laboratory Reports (1945-1988). Supplement Number 3, 1976-1978. AD-A069 057
- ADAPTIVE CONTROL SYSTEMS
 - Adaptive Training of Manual Control: Relation of Adaptive Scheme Parameters to Task Parameters. AD- 764 901
- AIRSHIPS

SUBJECT INDEX-35
UNCLASSIFIED FQP40C

HUM-HUM

UNCLASSIFIED

HUMAN FACTORS IN THE DESIGN OF AIRSHIPS.
AD- 643 118

BIBLIOGRAPHIES
ANNOTATED BIBLIOGRAPHY OF HUMAN FACTORS LABORATORY REPORTS (1945-1968).
AD- 686 174
Annotated Bibliography of Human Factors Laboratory Reports (1945-1968). Supplement Number 1 (1968-1972).
AD- 761 181

COCKPITS
AN ANALYSIS OF PILOTS' PERFORMANCES IN MULTIENGINE AIRCRAFT (RSD).
AD- 639 026

COMBAT INFORMATION CENTERS
SYMPOSIUM ON PROJECT CADILLAC.
AD- 642 023

CONTROL KNOBS
STUDIES IN COMPLEX COORDINATION.
I. PERFORMANCE ON THE TWO-HAND COORDINATOR AS A FUNCTION OF THE PLANES OF OPERATION OF THE CONTROLS.
AD- 657 192

CONTROL PANELS
A SURVEY OF THE IMPORTANCE AND USE OF CONTROLS AND DISPLAYS ON RADAR CONSOLE PANELS. (A CONTRIBUTION TO PANEL LAYOUT).
AD- 639 378
HUMAN FACTORS IN PANEL DESIGN.
AD- 657 547

DISPLAY SYSTEMS
ESTIMATIONS OF DISTANCE ON POLAR COORDINATE PLOTS AS A FUNCTION OF THE SCALE USED.
AD- 639 392

DIVING
Study, Feasibility of Undersea Salvage Simulation.

AD- 726 427

GUNNERY TRAINERS
TRAINING 90 MM AA GUN CREWS.
APPENDIX IV. TRAINING AIDS AND DEVICES.
AD- 657 947

INSTRUMENT DIALS
LEGIBILITY OF AIRCRAFT INSTRUMENT DIALS: OXYGEN DURATION METER.
AD- 638 868

MAN MACHINE SYSTEMS
THE USE OF HUMAN ENGINEERING DATA IN EQUIPMENT DESIGN PROBLEMS.
AD- 639 029
LECTURES ON MEN AND MACHINES.
AN INTRODUCTION TO HUMAN ENGINEERING.
AD- 639 366

MARINE ENGINEERING
SHIPBOARD SYSTEMS STUDIES.
HUMAN FACTORS IN THE ARRANGEMENT OF EQUIPMENT ON THE DD-927 AND CLK-1.
AD- 820 543

NAVAL TRAINING
PROCEDURES AND RESEARCH PLANNING FOR ANTI-AIR WARFARE TRAINING PROGRAM.
AD- 447 537

NUMBERS
LEGIBILITY OF NUMERALS: THE OPTIMAL RATIO OF HEIGHT TO WIDTH OF STROKE.
AD- 640 093

OPERATIONS RESEARCH
SYSTEMS RESEARCH WITH SPECIAL REFERENCE TO HUMAN ENGINEERING.
AD- 643 829

RADAR EQUIPMENT
MAXIMUM LIMITS OF WORKING AREAS ON VERTICAL SURFACES.
AD- 639 389
MOUNTING ANGLE OF A VJ REMOTE

RADAR INDICATOR AND ITS EFFECT ON OPERATOR PERFORMANCE.
AD- 646 273
PRELIMINARY LAYOUT OF CONTROLS AND DISPLAYS ON THE APA-56 PRODUCTION CONSOLE.
AD- 659 514
SUPPLEMENT TO MODIFICATION OF THE CONTROLS OF THE IP-48/APA-56 RANGE-AZIMUTH INDICATOR.
AD- 665 695
Human Engineering Aspects of the Utilization of the Sparrow Guided Missile System in Fighter Aircraft.
AD- 784 334

SUBMARINE PERISCOPES
THE HUMAN FACTOR IN THE DESIGN AND LAYOUT OF SUBMARINE EQUIPMENT. THE KOLLMORGEN ANY-HEIGHT PERISCOPE.
AD- 642 734
THE HUMAN FACTOR IN THE DESIGN AND LAYOUT OF SUBMARINE EQUIPMENT. KOLLMORGEN ANY HEIGHT PERISCOPE. HUMAN FACTORS IN THE OPERATION OF.
AD- 642 735
DESIGN OF SUBMARINE PERISCOPE CONTROLS, COMMENTS ON.
AD- 660 030

SUBMARINES
THE HUMAN FACTOR IN THE DESIGN AND LAYOUT OF SUBMARINE EQUIPMENT: ANALYSIS OF EQUIPMENT RATINGS AND PROPOSED LAYOUT OF SUBMARINE ATTACK CENTER.
AD- 642 736
THE HUMAN FACTOR IN THE DESIGN AND LAYOUT OF SUBMARINE EQUIPMENT: ANALYSIS OF WAR PATROL REPORTS AND INTERVIEWS.
AD- 642 737
HUMAN FACTORS IN THE DESIGN OF THE SUBMARINE CONTROL ROOM.
AD- 642 799
HUMAN ENGINEERING STUDY OF THE AGSS569 CONTROL ROOM.
AD- 643 118

TECHNICIANS

SUBJECT INDEX-38
UNCLASSIFIED FQP40C

HUM-HUM

UNCLASSIFIED

HUMAN ENGINEERING SUPPORT FOR
THE SHOREBASED ASROC WEAPON SYSTEM
TRAINER,
AD- 840 274

TRAINING DEVICES

HUMAN FACTORS TECHNOLOGY IN THE
DESIGN OF SIMULATORS FOR OPERATOR
TRAINING,
AD- 432 028

DEVELOPMENT OF EVALUATION
PROCEDURES FOR PROTOTYPE DEVICES.
AD- 641 800
LIGHT ANTI-AIRCRAFT TRACER
OBSERVATION AND FIRE CONTROL WITH
SPECIFIC REFERENCE TO THE TRAINING
PROBLEM,
AD- 642 527
Training Device Design: Human
Factors Requirements in the
Technical Approach.
AD- 754 744

VISUAL PERCEPTION

Eye Movement Research Program.
Annual Report Number 2. Visual
Training.
AD- 741 246

VISUAL SIGNALS

THE SPEED AND ACCURACY OF
DISCRIMINATING DIFFERENCES IN HUE,
BRILLIANCE, AREA, AND SHAPE.
AD- 639 143
THE SPEED AND ACCURACY OF
DISCRIMINATING DIFFERENCES IN
SINGLE AND COMPOUND ASPECTS OF
VISION.
AD- 639 144

*HUMAN RELATIONS

Evaluation of Human Relations
Training Programs.
AD-A037 536

*HYDROFOILS

PERFORMANCE(ENGINEERING)
HYDROFOIL SIMULATION EQUATIONS
STUDY: MATHEMATICAL MODEL REPORT:
VOLUME III. EQUATIONS AND METHODS
FOR SIMULATION OF REALISTIC SEAS,

AD- 649 311
HYDROFOIL SIMULATION EQUATIONS
STUDY: MATHEMATICAL MODEL REPORT:
VOLUME I. FOILBORNE EQUATIONS OF
MOTION,

AD- 649 331
HYDROFOIL SIMULATION EQUATIONS
STUDY: MATHEMATICAL MODEL REPORT:
VOLUME II. EQUATIONS AND METHODS
FOR SIMULATION OF HULL LIFT, DRAG
AND PITCH MOMENT,

AD- 649 332
HYDROFOIL SIMULATION EQUATIONS
STUDY: HYDROFOIL SIMULATION
EQUATION OF MOTION.

AD- 649 365
HYDROFOIL SIMULATION EQUATIONS
STUDY: PERFORMANCE CRITERIA AND
TEST REPORT FOR HYDROFOIL CRAFT.
AD- 649 458

*HYDROGRAPHIC SURVEYING

OCEANOGRAPHY
OCEANOGRAPHIC AND HYDROGRAPHIC
SYSTEMS FOR TRAINING.
AD- 649 815

*HYDROTURBOJET ENGINES

PRELIMINARY STUDIES OF THE
APPLICATION OF AXIAL FLOW PUMPJETS
TO THE PROPULSION OF SUBMARINES
AD- 061 381

*HYPERFINE STRUCTURE

FINE STRUCTURE OF NO PLUS AND NO
EMISSION SPECTRA IN THE SCHUMANN
REGION
AD- 069 890

*ILLNESS

Simulator Sickness Occurrences
in the 2E6 Air Combat Maneuvering
Simulator (ACMS).
AD-A097 742

*ILLUMINATION

SPECIFICATIONS
ILLUMINATION IN THE ATTACK
CENTER AND PERISCOPE AREA OF THE SS
563/564.
AD- 643 828

*ILLUSIONS

GEOMETRIC FORMS
THE HORIZONTAL-VERTICAL ILLUSION
IN PLANE GEOMETRIC FIGURES,
AD- 657 369

MOTION

AUTOKINESIS AND FELT EYE
POSITION.
AD- 668 015

RADAR IMAGES

AN ILLUSORY ROTATING SWEEP.
AD- 639 391

*IMAGE INTENSIFIERS (ELECTRONICS)

SOLID STATE PHYSICS
SOLID STATE IMAGE INTENSIFIERS.
PHASE II. DEVELOPMENT OF AN
INTERNAL TRAINER OPTICAL SYSTEM
IMAGE INTENSIFIERS.
AD- 431 545

*IMAGE INTENSIFIERS(ELECTRONICS)

DISPLAY SYSTEMS
SOLID STATE IMAGE INTENSIFIERS.
APPLICATION OF LIGHT AND IMAGE
INTENSIFICATION TECHNIQUES TO
MILITARY TRAINING. PHASE IV.
AD- 673 980

MANUFACTURING

SOLID STATE IMAGE INTENSIFIERS.
APPLICATION OF LIGHT AND IMAGE
INTENSIFICATION TECHNIQUES TO
MILITARY TRAINING, PHASE IV,
PROJECT LIT.
AD- 673 981

SCREENS(DISPLAYS)

Evaluation of Solid State Image
Intensifier Screen.
AD- 743 956

SEMICONDUCTOR DEVICES

SOLID STATE IMAGE INTENSIFIERS.
PHASE III. A BROAD CONTINUING
PROGRAM FOR THE APPLICATION OF
LIGHT AND IMAGE INTENSIFICATION
TECHNIQUES TO MILITARY TRAINING.
AD- 619 066

SUBJECT INDEX-37
UNCLASSIFIED FQP40C

HUM-IMA

UNCLASSIFIED

SOLID STATE PHYSICS
SOLID STATE IMAGE INTENSIFIERS.
AD- 645 590

*IMAGE PROCESSING
Objective Evaluation Method for
Simulated Visual Scenes -
Preliminary Analysis.
AD-A031 281

*IMAGE PROJECTORS
Aviation Wide-Angle Visual
System (AWAVS). Design Analysis
Report (Study Report).
AD-A037 223
Aviation Wide-Angle Visual
System (AWAVS). Trainer Design
Report. Subsystem Design Report.
AD-A046 699

*INCANDESCENT LAMPS
COMPARATORS
A PHYSICAL COMPARATOR FOR THE
COLOR TEMPERATURES OF INCANDESCENT
LAMPS.
AD- 857 618

*INDIVIDUALIZED TRAINING
Application of Simulation to
Individualized Self-Paced Training.
AD- 786 702
Navy Training Command Naval
Flight Officer Training Situation
Analysis.
AD-A058 392
An Assessment of Individualized
Instruction in Navy Technical
Training.
AD-A080 183

*INDUSTRIAL TRAINING
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 383
Analysis of Commercial Contract

Training.
AD-A006 658
Commercial Contract Training,
Navy Area VOTEC Support Center
(AVSC) Guidelines.
AD-A015 329
Analysis of Commercial Contract
Training for the Marine Corps
(Phase II).
AD-A015 330
Commercial Contract Training,
Marine Corps Area VOTEC Support
Center (AVSC) Guidelines.
AD-A015 331
Analysis of Commercial Contract
Training for the Navy.
AD-A016 890

*INDUSTRIAL TRAINING
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226

*INDUSTRIES
PERCEPTION OF DISTORTION. I. AN
EXPERIMENTAL APPROACH TO ILLUSION
AD- 292 120

*INFANTRY
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

*INFORMATION PROCESSING
Front-End Analysis: Generic and
Nongeneric Models.
AD-A095 106

*INFRARED DETECTORS
STATE-OF-THE-ART REVIEWS
IR Land Mass Transmissions.
AD- 500 059

TERRAIN
STUDY, SIMULATION OF INFRARED
LANDMASS DETECTION. VOLUME I.
AD- 384 166

*INFRARED EQUIPMENT
APPLICATION OF INFRARED
TECHNIQUES TO MILITARY TRAINING.
PHASE II. A CONSIDERATION OF
SPECIFIC MILITARY TRAINING
APPLICATIONS
AD- 267 685

DESIGN
Gallium Arsenide Injection Laser
Diode Quick Kill Weapon Fire
Simulator.
AD- 863 027

*INFRARED LASERS
SEMICONDUCTOR DIODES
Gallium Arsenide Injection Laser
Diode Quick Kill Weapon Fire
Simulator.
AD- 863 027

*INFRARED PHOTOGRAPHY
THE RECORDING OF AUDIENCE
REACTIONS BY INFRARED PHOTOGRAPHY
AD- 078 538

*INFRARED RADIATION
TARGETS
IR Land Mass Transmissions.
AD- 500 059

*INPUT OUTPUT DEVICES
Acoustic Tablet Data Input from
Instructor Consoles: An Interim
Report on Computer Display
Interactive Scenario Development.
AD-A001 278

*INSTALLATION
TRAINING DEVICES
DIRECTIONS FOR INSTALLATION AND
OPERATION OF VOICE COMMUNICATION
TRAINING EQUIPMENT UTILIZING DEVICE
8-1.
AD- 857 465

*INSTRUCTION MANUALS
Design of Training Systems,
User's Manual, Data Base, ETE,
SCRR, and TPF Models.
AD-A018 012

SUBJECT INDEX-38
UNCLASSIFIED FQP40C

IMA-INS

UNCLASSIFIED

Procedures for Questionnaire Development and Use in Navy Training Feedback.
AD-A018 069
Computer-Aided Authoring System (AUTHOR) User's Guide. Volume II.
AD-A061 811
Use of Mnemonics in Training Materials. A Guide for Technical Writers.
AD-A064 218
Development and Evaluation of a Remedial Reading Workbook for Navy Training.
AD-A079 288
System for Computer Automated Typesetting ((SCAT) of Computer Authored Texts.
AD-A088 838
Ground Controlled Approach Controller Training System (GCA-CTS) Student Guide.
AD-A091 930
Development and Test of a Computer Readability Editing System (CRES).
AD-A098 873
Software Documentation for the Research Tool Digital Computer System. Volume IIA. Detailed Program Description.
AD-A950 829
Digital Computer Fundamentals.
AD-A950 900
DDP-24 General-Purpose Computer. Volume 1.
AD-A951 020

FLIGHT
THE DEVELOPMENT OF A PROTOTYPE SPECIFICATION FOR THE PREPARATION OF MILITARY FLIGHT MANUALS.
AD- 842 322

SPECIFICATIONS
PHOTOTYPE SPECIFICATION FOR THE PREPARATION OF FLIGHT MANUALS.
AD- 837 200

*INSTRUCTIONAL MATERIALS
A Technique for Choosing Cost-

Effective Instructional Delivery Systems.
AD-A012 859
Evaluation of Microfiche as an Instructional Medium in a Technical Training Environment.
AD-A044 519
An Automated Publishing System for the Naval Education and Training Command.
AD-A047 848
SH-2F LAMPS Instructional Systems Development. Phase II.
AD-A058 793
Revising the SH-2F (LAMPS MK1) Instructional System Within the Framework of Instructional Systems Development.
AD-A065 925
Field Test of Guidelines for the Development of Memory Aids in Technical Training.
AD-A094 891
Procedure Training Aid for the SH-3D/H Normal Start Checklist.
AD-A113 171

*INSTRUCTIONS

Instructional Systems Design: the Navair/Navtraequipcen Model.
AD-A080 459

*INSTRUCTOR MANUALS

A STUDY OF THE FEASIBILITY OF LOCAL PRODUCTION OF MINIMUM COST SOUND MOTION PICTURES
AD- 078 539
HUMAN ENGINEERING ASSISTANCE FOR SHIPBOARD SIMULATION EQUIPMENT (X19A SERIES)
AD- 314 013

*INSTRUCTORS

HUMAN ENGINEERING CONSIDERATIONS IN THE DESIGN OF THE INSTRUCTOR'S STATION OF TRAILERIZED OPERATIONAL FLIGHT TRAINERS
AD- 118 027
Military Instructor Training in Transition.
AD-A013 330

Instructor Training.
AD-A015 294
Instructor Pilot's Role in Simulator Training.
AD-A023 548
Centralized Instructor Training for Naval Technical Training.
AD-A038 477
Instructor Pilot's Role in Simulation Training (Phase II).
AD-A047 919
Instructor Pilot's Role in Simulator Training. Phase III.
AD-A061 732
Selection, Training, and Utilization of Navy Recruit Training Command Officers.
AD-A088 403
An Analysis of Factors Affecting the Siting of Navy Instructor Training.
AD-A102 464

FLIGHT SIMULATORS
USE OF THE OPERATIONAL FLIGHT TRAINER.
AD- 843 498

SELECTION
CONSTRUCTION OF THREE MEASURES FOR INSTRUCTOR EVALUATION.
AD- 841 590
PRELIMINARY VALIDATION OF THE INSTRUCTORS EVALUATION REPORT.
AD- 841 591

TRAINING
AMPLIFYING THE INSTRUCTOR TRAINING PROGRAM IN THE NAVAL AIR BASIC TRAINING COMMAND.
AD- 841 597

*INSTRUMENT DIALS
GEOMETRIC FORMS
THE EFFECT OF INSTRUMENT DIAL SHAPE ON LEGIBILITY.
AD- 839 384

HUMAN FACTORS ENGINEERING
LEGIBILITY OF AIRCRAFT INSTRUMENT DIALS: OXYGEN DURATION

SUBJECT INDEX-39
UNCLASSIFIED FQP40C

INS-INS

UNCLASSIFIED

METER.
AD- 638 868
MACHINE DIALS AND SCALES.
AD- 639 866

READING
ACCURACY OF VISUAL INTERPOLATION
BETWEEN CIRCULAR SCALE MARKERS AS A
FUNCTION OF THE SEPARATION BETWEEN
MARKERS,
AD- 657 516

*INSTRUMENT FLIGHT
FLIGHT BY PERISCOPE
AD- 025 297
PILOT PERFORMANCE IN INSTRUMENT
FLIGHT AS A FUNCTION OF THE EXTENT
AND DISTRIBUTION OF VISIBLE HORIZON
AD- 138 800
THE APPLICATION OF POINT LIGHT
SOURCE TECHNIQUES TO A BREAKOUT
LANDING ATTACHMENT FOR A TWIN-
ENGINE INSTRUMENT TRAINER
AD- 227 558
PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 672 567
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226
Research on High-Level Adaptive
Training Systems.
AD-A022 291
Development and Evaluation of
Trainee Performance Measures in an
Automated Instrument Flight
Maneuvers Trainer.
AD-A024 517

FLIGHT SIMULATORS
STUDY AND DEVELOPMENT OF METHODS
FOR SIMULATED BLIND FLYING, PHASE
A. REVIEW OF METHODS.
AD- 660 000
STUDY AND DEVELOPMENT OF
EQUIPMENT FOR SIMULATING BLIND
FLYING. PHASE B. FIELD SURVEY.
AD- 660 005

STUDY OF CERTAIN EQUIPMENT USED
IN SIMULATED BLIND FLYING. PHASE
C. EXPERIMENTAL STUDY.

AD- 660 024
STUDY AND DEVELOPMENT OF
EQUIPMENT FOR SIMULATING BLIND
FLYING. PHASE D.
AD- 660 025
STUDY AND DEVELOPMENT OF
EQUIPMENT FOR SIMULATING BLIND
FLYING.
AD- 660 026

MATHEMATICAL MODELS
DYNAMICS REPORT FOR HELICOPTER
INSTRUMENT TRAINER DEVICE 2B10A.
AD- 669 834

NAVAL TRAINING
Automated Flight Training (AFT).
Instrument Flight Maneuvers.
AD- 759 366

PERISCOPES
FLIGHT BY PERISCOPE.
AD- 639 032

RETENTION(PSYCHOLOGY)
THE FORGETTING OF INSTRUMENT
FLYING SKILLS AS A FUNCTION OF THE
LEVEL OF INITIAL PROFICIENCY.
AD- 637 570

*INSTRUMENT LANDINGS
Descent-Rate Cuing for Carrier
Landings: Effects of Display Gain,
Display Noise and Aircraft Type.
AD-A108 801

*INSTRUMENT PANELS
RELATIVE PERFORMANCE FOR
CRANKING A HAND WHEEL AT DIFFERENT
POSITIONS ON A VERTICAL SURFACE
AD- 144 672

DISPLAY SYSTEMS
A STUDY OF THE MOVING PART,
HEADING PRESENTATION, AND MAP
DETAIL ON PICTORIAL AIR NAVIGATION
DISPLAYS.
AD- 637 536

A STUDY OF THE MOVING FIGURE AND
ORIENTATION OF SYMBOLS ON PICTORIAL
AIRCRAFT INSTRUMENT DISPLAYS FOR
NAVIGATION.
AD- 657 470

*INSTRUMENTATION
THE APPLICATION OF SOUND MOTION
PICTURES FOR RECORDING BILLET
ANALYSIS INFORMATION
AD- 063 935

SAFETY DEVICES
BIO-INSTRUMENTATION FOR CONTROL
OF PRESSURE CHAMBERS,
AD- 607 741

*INTELLIGIBILITY
PSYCHOLOGICAL TESTS
THE MANUAL-VERBAL RESPONSE
TACHISTOSCOPE: DISTRACTING DEVICE
FOR INTELLIGIBILITY TESTING.
AD- 639 088

PUBLIC ADDRESS SYSTEMS
A STUDY OF THE INTELLIGIBILITY
CHARACTERISTICS OF SEVEN ITEMS OF
MILITARY PUBLIC ADDRESS EQUIPMENT.
AD- 639 094

RETENTION(PSYCHOLOGY)
VOICE COMMUNICATION: RETENTION
OF IMPROVED INTELLIGIBILITY, II.
AD- 638 351
THE RETENTION OF IMPROVED
INTELLIGIBILITY IN VOICE
COMMUNICATION,
AD- 647 139

SPEECH
SYLLABLE DURATION AND INTENSITY
RELATED TO INTELLIGIBILITY.
AD- 639 084
RELATIONSHIPS BETWEEN VOICE
VARIABLES AND SPEECH
INTELLIGIBILITY IN HIGH LEVEL
NOISE.
AD- 639 095
A FURTHER INVESTIGATION OF THE
RELATIONSHIPS BETWEEN VOICE
VARIABLES AND SPEECH

SUBJECT INDEX-40
UNCLASSIFIED FQP40C

INS-INT

UNCLASSIFIED

INTELLIGIBILITY IN HIGH LEVEL NOISE.
AD- 639 096
THE RELATIONSHIP BETWEEN TALKER INTELLIGIBILITY AND MESSAGE FAMILIARITY.
AD- 639 097
COMMUNICATION IN NOISE: SUCCESS RELATED TO THREE DEGREES OF EMPHASIS ON VERBAL CONTEXT.
AD- 639 099
THE RELATION BETWEEN DURATION OF EXPOSURE TO HIGH LEVEL NOISE AND LISTENER ACCURACY.
AD- 639 103
AN INVESTIGATION OF LISTENER ACCURACY IN AN ENVIRONMENT OF RELEVANT CONFLICTING VOICE SIGNALS.
AD- 639 104
EVALUATION OF A SIGNAL LEVEL MONITORING METER AS A COMPONENT IN A VOICE COMMUNICATION TRAINING DEVICE.
AD- 639 105
A FACTOR ANALYSIS OF TWELVE PHYSICAL MEASURES OF VOICE.
AD- 639 108
TRAINING MANUAL FOR PORTABLE INTERPHONE TRAINER, DEVICE 8-I (VOICE COMMUNICATION).
AD- 639 818
LOUDNESS OF SPEAKING: THE EFFECT OF THE INTENSITY OF SIDE-TONE UPON THE INTENSITY OF THE SPEAKER.
AD- 642 189
SPEECH TRANSMISSION
VOICE COMMUNICATION: EFFECT OF STRESS CONDITIONS ON SPEAKER INTELLIGIBILITY.
AD- 638 350
*INTERACTIVE GRAPHICS
A Computer Light-Pen Input Technique for Data Entry from Instructor Consoles.
AD- 779 074
*INTERCEPTION
ACO PERFORMANCE AS A FUNCTION OF

NUMBER OF SIMULTANEOUS RAIDS AND TIME AVAILABLE FOR INTERCEPTION
AD- 043 900
Functional Design for Air Intercept Controller Prototype Training System.
AD-A113 209
*INTERCOMMUNICATION SYSTEMS
DISTORTION
FREQUENCY DISTORTION IN THE DEVICE 8-I PORTABLE INTERPHONE TRAINER.
AD- 657 487
*INTERPERSONAL RELATIONS
Use of Computer-Assisted Instruction for Interpersonal Skill Training: A Pilot Study.
AD-A009 381
Application of Computer-Assisted Instruction to Interpersonal Skill Training.
AD-A021 474
*INTERSTELLAR MATTER
DERIVING TRAINING DEVICE IMPLICATIONS FROM LEARNING THEORY PRINCIPLES. VOLUME III: SPECIFIC LEARNING PRINCIPLES
AD- 264 588
*INTERVIEWING
A Structured Interview Methodology for Collecting Training Feedback Information.
AD-A097 871
*JET AIRCRAFT
Evaluation of an Automated Flight Training System: Ground Controlled Approach Module (GCAM).
AD-A021 533
HANDBOOKS
HIGH SPEED FLIGHT INFORMATION FOR PILOTS.
AD- 471 058
*JET BOMBERS
A7E Transfer of Training

Effectiveness: Device 2C15A CPT and Device 2F84B OFT/WST.
AD-A027 891
A-6E Systems Approach to Training. Phase I.
AD-A037 468
*JET FIGHTERS
AIR TO AIR MISSILES
Human Engineering Aspects of the Utilization of the Sparrow Guided Missile System in Fighter Aircraft.
AD- 784 334
FLIGHT SIMULATORS
PILOT PERFORMANCE, TRANSFER OF TRAINING AND DEGREE OF SIMULATION: III. PERFORMANCE OF NON-JET EXPERIENCED PILOTS VERSUS SIMULATION FIDELITY.
AD- 875 825
NAVAL TRAINING
Automated Weapon System Trainer.
AD- 872 854
*JET TRAINING PLANES
Dynamics Report for T-28B Simplified Flight Simulator.
AD- 774 479
Training Situation Analysis Study for the T-34C Expanded Primary Flight Training Phase.
AD-A002 258
Device 2F90 Flying Qualities and Performance Evaluation and Discrepancy Correction.
AD-A018 588
*JOB ANALYSIS
THE APPLICATION OF SOUND MOTION PICTURES FOR RECORDING BILLET ANALYSIS INFORMATION
AD- 063 935
PRINCIPLES AND PRELIMINARY RECOMMENDATIONS FOR A CORE SYSTEM OF NAVY RADAR OPERATOR TRAINING DEVICES
AD- 238 776
THE ROLE OF KNOWLEDGE OF RESULTS IN LEARNING: A SURVEY

SUBJECT INDEX-41
UNCLASSIFIED FQP40C

INT-JOB

UNCLASSIFIED

- AD- 262 937
HUMAN FACTOR ANALYSIS OF TEAM
TRAINING (U)
AD- 315 350
Analysis of Requirements and
Methodology for Decision Training
in Operational Systems.
AD-A080 028
- NAVAL AVIATION
REPORT ON BILLET ANALYSIS AND
EVALUATION.
AD- 641 598
- PATROL AIRCRAFT
Task Analysis OF Pilot, Copilot,
and Flight Engineer Positions for
the P-3 Aircraft.
AD- 768 445
- THEORY
DEVELOPMENT OF AN IMPROVED
METHOD OF TASK ANALYSIS AND
BEGINNINGS OF A THEORY OF TRAINING,
AD- 445 869
GUIDELINES FOR TASK ANALYSIS,
AD- 445 870
A REVIEW OF THE LITERATURE ON
TASK ANALYSIS METHODS,
AD- 445 871
- TRAINING
Trainee and Instructor Task
Qualification: Development of
Quantitative Indices and a
Predictive Methodology.
AD- 722 423
- *JOB TRAINING
Toward Improved Maintenance
Training Programs: The Potentials
for Training and Aiding the
Technician.
AD-A103 478
- *LANDING
VISUAL SIGNALS
THE EFFECTS OF ELIMINATING
BINOCULAR AND PERIPHERAL MONOCULAR
VISUAL CUES UPON AIRPLANE PILOT
PERFORMANCE IN LANDING.
- AD- 639 031
- *LANDING AIDS
Computer Simulation of Fresnel
Lens Optical Landing System.
AD-A038 458
Glideslope Descent-Rate Cuing to
Aid Carrier Landings.
AD-A092 193
Training Characteristics of LSD
Reverse Display.
AD-A096 864
- *LANDING CRAFT
Assault Boat Equations Computer
Programming.
AD- 779 881
Mathematical Model of an Air
Cushion Vehicle.
AD-A015 699
- MOTION
A MATHEMATICAL MODEL FOR ASSAULT
BOAT MOTION IN WAVES.
AD- 712 773
- NAVAL PERSONNEL
ASSAULT BOAT COXSWAIN TRAINER
FEASIBILITY STUDY.
AD- 809 071
- SIMULATION
DEVELOPMENT OF EQUATIONS FOR
SIMULATING ASSAULT BOAT MOTION.
AD- 712 774
- SIMULATORS
Assault Boat Equations.
AD- 754 423
- *LANGUAGE
EXPLORATORY STUDIES IN THE USE
OF PICTURES AND SOUND FOR TEACHING
FOREIGN LANGUAGE VOCABULARY
AD- 078 537
- *LASER BEAMS
Piezoelectric Laser Beam
Deflector.
AD- 780 418
Technological Projection for
- Laser Deflectors.
AD-A014 208
The Effect of Nonuniform Laser
Illumination on Photographic
Density Levels.
AD-A021 889
- *LASER CAVITIES
Optical Effect : a Spherical
End Plate on a Laser Beam.
AD- 780 421
- *LASER COMMUNICATIONS
Trainer Engineering Report
(Final) for MILES. Volume I.
Revision.
AD-A102 276
Trainer Engineering Report
(Final) for MILES. Volume II.
Revision.
AD-A102 277
- *LASER TARGET INTERACTIONS
MAGLAD Effective Simulation,
Range and Alignment Tolerance
Demonstration Test Plan,
AD-A092 267
MAGLAD. Trainer Engineering
Report Demonstration Results.
AD-A092 477
- *LASER WEAPONS
Laser Helicopter Gunner Trainer.
AD-A024 836
Military Weapon Simulators
Utilizing Visible Wavelength
Lasers.
AD-A042 120
- *LASERS
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Laser Plotting Projection.
AD-A032 578
Electronic Control for 380
Degree Nonprogrammed Visual
Display.
AD-A032 578

SUBJECT INDEX-42
UNCLASSIFIED FQP40C

JOB-LAS

UNCLASSIFIED

Optical Analysis of a Multicolor
Model of the 360 Degree
Nonprogrammed Visual Display.
AD-A042 092

BURNS (INJURIES)
BIOLOGICAL EFFECTS OF LASERS:
SAFETY RECOMMENDATIONS AND A
COMMENT ON THE CONCEPT OF OCULAR
DAMAGE.
AD- 807 718

DEFLECTION
LASER DEFLECTION BY A
TORSIONALLY RESONANT HORN LOADED
PIEZOELECTRIC CERAMIC.
AD- 816 860

GUNNERY TRAINERS
LASER APPLICATION AVIATION
ORDNANCE STUDY.
AD- 834 917
Semiconductor Laser Weapon Fire
Simulators for Pop-Up and Aerial
Target Engagement Training.
AD- 742 084
Laser Weapon Fire Simulator
Using Retroreflective Targets.
AD- 749 951

OPTICAL SCANNING
LASERS FOR TRAINING DEVICES.
AD- 479 782

PHOTOGRAPHY
SIMPLIFICATION OF HOLOGRAPHIC
PROCEDURES.
AD- 858 522

RADIATION EFFECTS
LASER HAZARDS.
AD- 838 773

RADIATION HAZARDS
LASER PARAMETERS FOR HUMAN
VIEWING. I. AN ANALYSIS OF VIEWING
DIRECT AND SCATTERED LASER
RADIATION.
AD- 875 803
Laser Safety in Pulsed
Holography.

AD- 751 024

SAFETY
Laser Safety.
AD- 721 088

SIMULATION
SIMULATOR, WEAPON, FIRING AND
RANGING (LASER) SYSTEM.
AD- 819 184

STEREOPHOTOGRAPHY
Sequential Stereo Holography
with Application to X-Rays.
AD- 854 588
An Investigation of Holographic
Parameters.
AD- 872 988
Polarization Effects in
Holography.
AD- 874 838

TRAINING DEVICES
Lasers for Training Devices.
AD- 737 858

*LAUNCHING
HUMAN FACTORS RECOMMENDATIONS
FOR THE REDSTONE MISSILE FIRE UNIT
PROFICIENCY ANALYSER
AD- 130 703

*LEADERSHIP TRAINING
An Assessment of Leadership
Training Requirements for Navy
Recruit Training Division Officers.
AD-A100 278

*LEARNING
THE EFFECTS OF KNOWLEDGE OF TEST
RESULTS ON LEARNING OF MEANINGFUL
MATERIAL
AD- 010 044
EXPLORATORY STUDIES IN THE USE
OF PICTURES AND SOUND FOR TEACHING
FOREIGN LANGUAGE VOCABULARY
AD- 078 537
THE VALIDITY OF PICTORIAL TESTS
AND THEIR INTERACTION WITH AUDIO-
VISUAL TEACHING METHODS
AD- 096 828

A STUDY OF LEARNING AND
RETENTION FROM TELEVISION
INSTRUCTION TRANSMITTED TO ARMY
FIELD FORCE RESERVISTS

AD- 109 218
THE EFFECTS ON LEARNING OF THE
PERCEIVED USEFULNESS OF THE
MATERIAL TO BE LEARNED

AD- 109 247
MEMORY-DRUM VS. ADJUSTED-
LEARNING TECHNIQUES IN THE STUDY OF
ASSOCIATIVE INTERFERENCE IN
LEARNING BY PAIRED-ASSOCIATES
AD- 160 447

TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY
AD- 230 998
AUGMENTED FEEDBACK AND TRACKING
SKILL

AD- 230 999
A STUDY OF THE LEARNING OF
SELECTED DRIVING SKILLS THROUGH
EXPOSURE TO A SPECIALLY PRODUCED
MOTION PICTURE FILM

AD- 237 913
THE USE OF CONTEXT CUES IN
TEACHING MACHINES

AD- 238 777
PART-VERSUS WHOLE-TASK LEARNING
OF A FLIGHT MANEUVER
AD- 242 580

THE ACCEPTABILITY AND
EFFECTIVENESS OF THE CASUAL USE OF
AUDITORY TRAINING AIDS

AD- 243 219
PSYCHOLOGICAL STUDY OF MOTOR
SKILLS

AD- 243 372
TEAM TRAINING II: INDIVIDUAL
LEARNING AND TEAM PERFORMANCE
AD- 247 147

THE CONTRIBUTION OF PART-TASK
TRAINING TO THE RELEARNING OF A
FLIGHT MANEUVER

AD- 258 805
THE ROLE OF KNOWLEDGE OF RESULTS
IN LEARNING: A SURVEY

AD- 262 837
DERIVING TRAINING DEVICE
IMPLICATIONS FROM LEARNING THEORY
PRINCIPLES. VOLUME I. GUIDE-LINES

SUBJECT INDEX-43
UNCLASSIFIED FQP40C

LAU-LEA

UNCLASSIFIED

FOR TRAINING DEVICE DESIGN,
DEVELOPMENT AND USE
AD- 284 384
DERIVING TRAINING DEVICE
IMPLICATIONS FROM LEARNING THEORY
PRINCIPLES. VOLUME II: METHODOLOGY
AD- 284 381
ASSOCIATIVE, CATEGORY, AND SET
FACTORS IN CLUSTERING AMONG WORK
PAIRS AND TRIADS
AD- 267 660
PARAMETERS AFFECTING THE
RELATIVE EFFICIENCY OF PART AND
WHOLE TRAINING METHODS: A REVIEW OF
THE LITERATURE
AD- 275 921
EFFECTS OF INDUCED STRESS ON
LEARNING PERFORMANCE
AD- 283 105
RESEARCH ON AUGMENTED FEEDBACK
AND THE ACQUISITION AND TRANSFER OF
SKILL
AD- 293 884
Naval Training Device Center
25th Anniversary Commemorative
Technical Journal.
AD- 735 487
Learning Guidelines and
Algorithms for Types of Training
Objectives.
AD-A023 066
Computer-Aided Authoring of
Programmed Instruction for Teaching
Symbol Recognition.
AD-A060 143
Learning of Procedures in Navy
Technical Training: An Evaluation
of Strategies and Formats.
AD-A084 067

ANALYSIS OF VARIANCE
Comparison of the Audio and
Video Elements of Instructional
Films (Rapid Mass Learning).
AD- 784 042

EFFECTIVENESS
EFFECTIVENESS AND STUDENT
ACCEPTANCE OF INDIRECT PAIRED
ASSOCIATES LEARNING.
AD- 628 449

ELECTROPHYSIOLOGY
BIOPOTENTIAL SIGNALS AS A
FUNCTION OF LEARNING TASK
DIFFICULTY.
AD- 625 130

GUNNERY TRAINERS
PRELIMINARY REPORT ON FIXED
GUNNERY SLIDE FILM DEFLECTION
TRAINER (3-C-9).
AD- 639 278
MEMORANDUM ON PROGRESS OF
LEARNING STUDY ON AERIAL GUNNERY
TRAINING DEVICE 3-A-2.
AD- 639 277
AN EXPERIMENTAL STUDY OF
LEARNING ON THE AERIAL GUNNERY
TRAINING DEVICE 3-A-2.
AD- 639 279

INHIBITION
LOSSES OF SKILL IN PERFORMING
THE STANDARD MASHBURN TASK ARISING
FROM DIFFERENT LEVELS OF LEARNING
ON THE REVERSED TASK.
AD- 643 405
FACILITATION AND INTERFERENCE IN
PERFORMANCE ON THE MODIFIED
MASHBURN APPARATUS: I. THE
EFFECTS OF VARYING THE AMOUNT OF
ORIGINAL LEARNING.
AD- 643 408

INTERFERENCE
THE EFFECTS OF LEVEL OF LEARNING
AND OF OVER LEARNING ON PROACTIVE
AND RETROACTIVE FACILITATION AND
INTERFERENCE.
AD- 643 413

MOTIVATION
RELATIONSHIP OF ANXIETY TO
LEARNING FROM FILMS.
AD- 640 879

MOTOR REACTIONS
A STUDY OF TRANSFER IN A MOTOR
TASK WITH VARYING DISPLAY-CONTROL
RELATIONSHIPS.
AD- 641 580
TRANSFER OF TRAINING FROM

PRACTICE ON COMPONENTS IN A MOTOR
SKILL.
AD- 641 581
TRANSFER OF DISCRIMINATION TO A
MOTOR TASK.
AD- 641 583
TRANSFER TO A MOTOR SKILL FROM
PRACTICE ON A PICTURED
REPRESENTATION.
AD- 641 584
ON THE RELATION BETWEEN
SIMILARITY AND TRANSFER OF TRAINING
IN THE LEARNING OF DISCRIMINATIVE
MOTOR TASKS.
AD- 641 585
TRANSFER OF TRAINING TO A MOTOR
SKILL AS A FUNCTION OF VARIATION IN
RATE OF RESPONSE.
AD- 641 586
TRANSFER OF TRAINING TO A MOTOR
TASK IN RELATION TO STIMULUS
SIMILARITY.
AD- 641 587
FURTHER ATTEMPTS TO DEMONSTRATE
INTERFERENCE IN THE PERFORMANCE OF
ROTARY PURSUIT TASKS.
AD- 643 656
THE EFFECTS OF AN INTERFERING
TASK ON THE LEARNING OF A COMPLEX
MOTOR SKILL.
AD- 657 480

NAVAL PERSONNEL
Study of Long-Term Skill
Retention.
AD- 503 879

NAVAL TRAINING
Learning, Retention and Transfer
in Military Training.
AD- 733 984

OPTIMIZATION
The Effects of Inserted
Questions and Statements on Film
Learning (Rapid Mass Learning).
AD- 784 040

PERCEPTION
THE USE OF CUEING IN TRAINING
TASKS.

SUBJECT INDEX-44
UNCLASSIFIED FQP40C

LAU-LEA

UNCLASSIFIED

AD- 601 352

PERCEPTION (PSYCHOLOGY)
FURTHER EXPERIMENTS ON COMPUTER-
AIDED LEARNING OF SOUND
IDENTIFICATION.

AD- 802 079

PERFORMANCE (HUMAN)
FACILITATION AND INTERFERENCE IN
PERFORMANCE ON THE MODIFIED
WASHBURN APPARATUS: II. THE
EFFECTS OF VARYING THE AMOUNT OF
INTERPOLATED LEARNING.

AD- 843 407

PRIOR LEARNING AS A FACTOR IN
SHAPING PERFORMANCE CURVES.

AD- 843 409

A STUDY OF WARMUP DECREMENT IN
PURSUIT ROTOR PERFORMANCE.

AD- 843 410

SINGLE-TRIAL-PER-TASK VERSUS
MULTIPLE-TRIALS-PER-TASK IN THE
ACQUISITION OF SKILL IN PERFORMING
SEVERAL SIMILAR TASKS.

AD- 843 412

Effects of Learner
Representation in Film-Mediated
Perceptual-Motor Learning (Rapid
Mass Learning).

AD- 784 037

The Effect of Attention Gaining
Devices of Film-Mediated Learning
(Rapid Mass Learning).

AD- 784 038

The Relationship of Optical
Effects and Film Literacy to
Learning from Instructional Films.

AD- 784 043

PSYCHOLOGICAL TESTS

STUDY OF TRAINING EQUIPMENT AND
INDIVIDUAL DIFFERENCES. THE
EFFECTS OF SUBJECT MATTER
VARIABLES.

AD- 871 842

Learning Retention and Transfer.
Volume I.

AD- 724 778

PSYCHOPHYSIOLOGY

ONE-TRIAL LEARNING AND QUANTUM
PSYCHOPHYSICS: A SYNTHESIS.

AD- 802 516

PHYSIOLOGICAL CORRELATES OF
LEARNING AND OVERLEARNING.

AD- 838 397

SPACE PERCEPTION

EFFECT OF LEARNING ON THE VISUAL
PERCEPTION OF DEPTH.

AD- 834 542

STRESS (PSYCHOLOGY)

THE EFFECT OF TASK-INDUCED
STRESS ON CODE LEARNING.

AD- 860 022

SYMPOSIA

Learning, Retention, and
Transfer. Volume II. Appendix B:
L, R, and T Technical Meetings
Report.

AD- 724 790

TRAINING DEVICES

LEARNING STUDIES WITH THE MARK
18 COORDINATION TRAINER DEVICE 3-A-
40.

AD- 839 035

REPORT OF RESULTS OF LEARNING
STUDIES WITH THE MARK 18
COORDINATION TRAINER DEVICE 3 - A -
40.

AD- 857 485

TRAINING FILMS

LEARNING THEORIES AND
INSTRUCTIONAL FILM RESEARCH (RAPID
MASS LEARNING).

AD- 840 450

FILM PROFILES (RAPID MASS
LEARNING).

AD- 840 875

THE VALUE OF NOTE-TAKING DURING
FILM LEARNING (RAPID MASS
LEARNING).

AD- 840 878

EVALUATION OF A PROCEDURE FOR
USING DAYLIGHT PROJECTION OF FILM
LOOPS IN TEACHING SKILLS.

AD- 840 877

COMPARISON OF MENTAL PRACTICE
AND PHYSICAL PRACTICE IN THE
LEARNING OF PHYSICAL SKILLS.

AD- 840 878

RELATIONSHIP OF LENGTH AND FACT
FREQUENCY TO EFFECTIVENESS OF
INSTRUCTIONAL MOTION PICTURES.

AD- 840 880

THE EFFECTS OF PRESTIGE AND
IDENTIFICATION FACTORS ON ATTITUDE
RESTRUCTURING AND LEARNING FROM
SOUND FILMS.

AD- 840 881

RELATIVE EFFECTIVENESS OF
INSTRUCTION BY: FILMS EXCLUSIVELY,
FILMS PLUS STUDY GUIDES, AND
STANDARD LECTURE METHODS (RAPID
MASS LEARNING).

AD- 840 882

CONTRIBUTIONS OF FILM
INTRODUCTIONS AND FILM SUMMARIES TO
LEARNING FROM INSTRUCTIONAL FILMS.

AD- 840 885

EFFECTS OF FILM-VIEWING PRACTICE
ON LEARNING FROM INSTRUCTIONAL
FILMS (RAPID MASS LEARNING).

AD- 840 888

INSTRUCTIONAL FILM RESEARCH
(RAPID MASS LEARNING) 1918-1950.

AD- 847 255

*LENSES

Supplementary Routines for Lens
Design by Computer.

AD-A020 625

Peri-Apollar 360 Degree Lens
Distortion Free Linear Mapping.

AD-A038 150

DESIGN

First- and Third-Order Lens
Analysis by Programmable Desk
Calculator.

AD- 750 249

Development of Two Lenses for
160 deg x 80 deg Closed Circuit
Projection TV.

AD- 874 278

*LIFE CYCLE COSTS

Techniques for Measuring the

SUBJECT INDEX-45
UNCLASSIFIED FQP40C

LEN-LIF

UNCLASSIFIED

Utilization of Major Surface and Undersea Training Devices in Terms of Life-Cycle Costs and Employment Practices.
AD-A950 974

*LIFE SUPPORT
MODELS (SIMULATIONS)
INTERNAL ENVIRONMENTAL SIMULATOR FOR A MANMACHINE SYSTEM.
AD- 431 028

*LIGHT
METHODS OF PRESENTING MOVING OBJECTS IN POINT LIGHT SOURCE VISUAL DISPLAYS
AD- 233 912
THE APPLICATION OF POINT SOURCE PROJECTION TECHNIQUES TO AIR-TO-SURFACE OBSERVATION TRAINING
AD- 233 913

*LIGHT PENS
A Computer Light-Pen Input Technique for Data Entry from Instructor Consoles.
AD- 779 074

*LIGHT TRANSMISSION
Optical Effect of a Spherical End Plate on a Laser Beam.
AD- 780 421

*LIGHTING EQUIPMENT
STUDY OF POINT LIGHT SOURCE PROJECTION SYSTEM COMPONENTS
AD- 233 882

*LIGHTNING ARRESTERS
ELECTROMAGNETIC SHIELDING
Lightning Protection for Navy Device 202 Site, Astor, Florida.
AD- 889 851

*LOGISTICS MANAGEMENT
Techniques for Measuring the Utilization of Major Surface and Undersea Training Devices in Terms of Life-Cycle Costs and Employment Practices.
AD-A950 974

*LORAN
EFFECT OF CONTROLLED INTERFERENCE WITH LORAN SIGNALS UPON OPERATOR PERFORMANCE
AD- 005 391

HUMAN FACTORS ENGINEERING
AN EVALUATION OF LORAN (HUMAN ENGINEERING SYSTEMS STUDY).
AD- 385 862

*LUMINANCE
Distribution of Monochrome Screen Luminance in the CTOL Visual Technology Research Simulator.
AD-A111 799

*MAGNETIC ANOMALY DETECTION
A Magnetic-Anomaly Simulator for Training.
AD-A024 345

*MAGNETIC PLANNING
Proceedings of the Naval Training Device Center and Industry Conference (5th) Held on 15-17 February 1972.
AD- 737 226

*MAINTENANCE
AN EXPERIMENTAL INVESTIGATION OF EQUIPMENT PACKAGING FOR EASE IN MAINTENANCE
AD- 241 571
Proceedings of the Third Naval Training Device Center and Industry Conference 19-21 November 1968.
AD- 854 363
New Concepts in Maintenance Trainers and Performance Aids.
AD-A017 218
Analysis of Software Simulation in Computer-Based Electronic Equipment Maintenance Trainers.
AD-A080 583
DDP-24 General-Purpose Computer, Volume 1.
AD-A951 020

AIRCRAFT EQUIPMENT
Analysis and Evaluation of Navy

Avionics Manuals.
AD- 880 414

EDUCATION
CHECK LIST OF TECHNICAL RELEASES AFFECTING TRAINING DEVICES.
AD- 428 765

*MAINTENANCE EQUIPMENT
ATE: Bane or Blessing for the Technician.
AD-A058 338

*MAINTENANCE MANAGEMENT
Precommissioning Training.
AD-A043 169

*MAINTENANCE PERSONNEL
AN EVALUATION OF THE TRAINER-TESTER AND PUNCHBOARD TUTOR AS ELECTRONICS TROUBLE-SHOOTING TRAINING AIDS
AD- 115 708
HUMAN FACTORS IN MAINTENANCE. PART I. AN INVESTIGATION OF MAINTENANCE PROBLEMS OF A REPRESENTATIVE TRAINING DEVICE
AD- 159 627
MAINTAINABILITY HANDBOOK FOR ELECTRONIC EQUIPMENT DESIGN
AD- 241 284
ANTHROPOMETRY OF ONE HANDED MAINTENANCE ACTIONS
AD- 241 408
SURVEY INFORMATION: (A) DESCRIPTION OF THE TRAINING DEVICE TECHNICIAN (B) ENGINEERS' ESTIMATES OF CIRCUITS AND SYSTEM MAINTAINABILITY
AD- 242 571
Preliminary Specifications for an AWG-9 WCS Maintenance Trainer for the F-14 Aircraft.
AD-A009 365
Generalized Training Devices for Avionic Systems Maintenance.
AD-A009 805
Electronic Warfare Maintenance Training Analysis, Executive Summary.
AD-A018 445

SUBJECT INDEX-48
UNCLASSIFIED FQP40C

LIF-MAI

UNCLASSIFIED

SEP 82 R NELSON, E BOERUM
NAVTRADEV-P-3695

F/G 5/9

NL

2. 3

and

UNCLASSIFIED

Electronic Warfare Maintenance
Training Analysis.

AD-A019 191

Advanced Concepts of Naval
Engineering Maintenance Training.
Volume I.

AD-A024 860

Advanced Concepts of Naval
Engineering Maintenance Training.
Volume II. Appendix F.

AD-A024 866

Toward Improved Maintenance
Training Programs: The Potentials
for Training and Aiding the
Technician.

AD-A103 476

NAVAL TRAINING

MEMORY FACTORS IN COMPUTER-
CONTROLLED MAINTENANCE TRAINING.

AD- 637 980

SONAR

THE DEVELOPMENT AND TRIAL OF A
GENERALIZED SONAR MAINTENANCE
TRAINER.

AD- 381 442

TRAINING DEVICES

A Study of the Feasibility and
Desirability of Developing a
Generalized Underwater Fire-Control
System Maintenance Trainer.

AD- 871 547

*MAN COMPUTER INTERFACE

Automated Course Scheduling
System for Naval Training.

AD-A071 576

*MAN MACHINE SYSTEMS

Annotated Bibliography of Human
Factors Laboratory Reports (1945-
1968). Supplement Number 2, 1973-
1975.

AD-A025 179

Training Implications of
Airborne Applications of Automated
Speech Recognition Technology.

AD-A098 625

Reports by Systems Technology,

Inc., in Support of Carrier-Landing
Research in the Visual Technology
Research Simulator.

AD-A112 466

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Factors Laboratory Reports (1945-
1968). Supplement Number 1 (1968-
1972).

AD- 761 181

HUMAN FACTORS ENGINEERING

LECTURES ON MEN AND MACHINES.
AN INTRODUCTION TO HUMAN
ENGINEERING.

AD- 639 366

RADAR EQUIPMENT

THEORY AND METHODS FOR ANALYZING
ERRORS IN MAN-MACHINE SYSTEMS.

AD- 657 522

TRACKING

THE EFFECTIVE TIME CONSTANT IN
TRACKING BEHAVIOR.

AD- 675 806

*MANAGEMENT

Design of Training Systems.
TRAPAC User's Manual, Data Base,
SCRR, and TPF Models.

AD-A040 238

*MANAGEMENT ENGINEERING TRAINING

Construction of a Self-
Instructional Course for the
Resources Management System
Research, Development, Test and
Evaluation, Navy.

AD- 756 719

*MANAGEMENT INFORMATION SYSTEMS

Design of Training Systems.
Phase IV Report.

AD-A046 700

A Review of Navy Training Device
Utilization Reporting Procedures.

AD-A100 279

*MANAGEMENT PLANNING AND CONTROL

A Guide for the Application of
Performance-Structure Oriented CAI
in Naval Training: A Working
Paper.

AD- 784 379

A Method for Obtaining Post
Formal Training Feedback:
Development and Validation.

AD-A011 118

Design of Training Systems
Utility Assessment. The Training
Process Flow and System
Capabilities/Requirements and
Resources Models Operating in the
TRAPAC Environment.

AD-A026 289

Design of Training Systems.
Computerization of the Educational
Technology Assessment Model (ETAM).
Volume 1.

AD-A041 217

Design of Training Systems.
Computerization of the Educational
Technology Assessment Model (ETAM).
Volume 2.

AD-A041 261

Functional Specifications for
Computer Aided Training Systems
Development and Management (CATSDM)
Support Functions.

AD-A061 245

A Cost Management Control
Procedure for Initial Training in
Surface Ship Acquisition Programs.

AD-A070 037

Toward Improved Maintenance
Training Programs: The Potentials
for Training and Aiding the
Technician.

AD-A103 476

*MANAGEMENT TRAINING

Preliminary Investigations
Concerning the Training of Tactical
Decision Making Behavior.

AD-A028 722

A Cost Management Control
Procedure for Initial Training in
Surface Ship Acquisition Programs.

AD-A070 037

SUBJECT INDEX-47
UNCLASSIFIED FQP40C

MAN-MAN

UNCLASSIFIED

*MANEUVERS
TRAINING DEVICES
UTILIZATION STUDY OF MANEUVERING
TACTICS TRAINER, DEVICE 1-BZ-2.
AD- 639 030

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Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*MANUALS
Training Requirements for the
Naval Technical Information
Presentation Program: A Needs
Assessment.
AD-A040 260
Computer-Aided Authoring System
(AUTHOR) User's Guide. Volume I.
AD-A059 572

*MAP PROJECTION
DIGITAL COMPUTERS
Investigation of the Compilation
of Digital Maps.
AD- 740 139

TERRAIN MODELS
COORDINATE TRANSFORMATION.
AD- 426 442

*MAPPING
DATA PROCESSING
Investigation of the Compilation
of Digital Maps.
AD- 740 139

DIGITAL SYSTEMS
INVESTIGATION OF DIGITAL
TECHNIQUES FOR RADAR LAND MASS
SIMULATION.
AD- 424 825

RADAR
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 2.
AD- 740 409
Development of a Hybrid Radar
Landmass Simulator: Engineering

Report Number 5.
AD- 740 410
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 6.
AD- 740 411

*MAPS
AERIAL RECONNAISSANCE
Chart Interpretation in Low-
Altitude Flight.
AD- 768 466

*MARINE BIOLOGICAL NOISE
RECORDS
MARINE ANIMAL DATA ATLAS.
AD- 835 746

REVIEWS
REVIEW OF MARINE BIO-ACOUSTICS.
STATE OF THE ART: 1964.
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*MARINE CORPS
TRAINING DEVICES
A Study of Training Device
Requirements to Support Land Combat
Training. Volume I. Recruit
Training.
AD- 894 317L

A Study of Training Device
Requirements to Support Land Combat
Training. Volume II. Individual
Combat Training and Basic
Specialist Training.
AD- 894 318L

A Study of Training Device
Requirements to Support Land Combat
Training. Volume III. Officer
Tactical Training.
AD- 894 319L

*MARINE ENGINEERING
Advanced Concepts of Naval
Engineering Maintenance Training.
Volume I.
AD-A024 880
Advanced Concepts of Naval
Engineering Maintenance Training.
Volume II. Appendix F.
AD-A024 886

HUMAN FACTORS ENGINEERING
SHIPBOARD SYSTEMS STUDIES.
HUMAN FACTORS IN THE ARRANGEMENT OF
EQUIPMENT ON THE DD-927 AND CLK-1.
AD- 820 543

*MARINE PROPULSION
SHIPS
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 348 987

*MARINE TRANSPORTATION)
SPECIFICATIONS FOR CINCLANT
PLOTING BOARD SYMBOLS.
AD- 493 884

*MATHEMATICAL MODELS
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume I. Sections 1 through 4.
AD-A038 796

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume II. Sections 5 through 5.5.
AD-A038 797

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume III. Sections 5.6 through
5.10.
AD-A038 798

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume IV. Section 6 and Appendix
A.
AD-A038 799

An Optimal Control Model
Analysis of Data from a Simulated
Hover Task.
AD-A099 895

DISPLAY SYSTEMS
Electro-Optical Visual Display
Simulator.
AD- 503 441L

EQUATIONS OF

SUBJECT INDEX-48
UNCLASSIFIED FQP40C

MAN-MAT

UNCLASSIFIED

DIGITAL COMPUTATION STUDY,
DYNAMIC VS KINEMATIC EQUATIONS.
AD- 627 099

WARFARE
STUDY OF COMPUTERS TO IMPROVE
COMMAND POST EXERCISES.
AD- 628 749

*MATHEMATICS
MATHEMATICAL ANALYSIS OF
ELECTRICAL AND MECHANICAL SYSTEMS
AD- 056 336

*MEASURE THEORY
A GENERAL THEORY OF MEASUREMENT
APPLICATIONS TO UTILITY
AD- 241 626

*MEASUREMENT
An Annotated Bibliography of
Objective Pilot Performance
Measures.
AD-A113 170

*MECHANICS
MATHEMATICAL ANALYSIS OF
ELECTRICAL AND MECHANICAL SYSTEMS
AD- 056 336

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Proceedings of NTEC/Industry
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Transition.
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Conference (8th): New Concepts for
Training Systems Held on 18-20
November 1975.
AD-A028 885

*MEMORY (PSYCHOLOGY)
STRESS (PSYCHOLOGY)
PERCEPTION AND SHORT TERM MEMORY
UNDER WORK LOAD STRESS.
AD- 604 886

*MEMORY (PSYCHOLOGY)

PSYCHOLOGICAL STUDY OF MOTOR
SKILLS
AD- 243 372
PARAMETERS AFFECTING THE
RELATIVE EFFICIENCY OF PART AND
WHOLE TRAINING METHODS: A REVIEW OF
THE LITERATURE
AD- 275 921
Field Test of Guidelines for the
Development of Memory Aids in
Technical Training.
AD-A094 891

AFTERIMAGES
VISUAL AFTER-IMAGES AS A SOURCE
OF INFORMATION.
AD- 603 546

PROGRAMMED INSTRUCTION
MEMORY FACTORS IN COMPUTER-
CONTROLLED MAINTENANCE TRAINING.
AD- 697 980

*MENTAL DISORDERS
EFFECT OF MENTAL HYGIENE FILMS
ON NORMAL AND ABNORMAL INDIVIDUALS
AD- 090 594

*METEOROLOGICAL SATELLITES
DISPLAY SYSTEMS
STUDY, SIMULATION OF
OCEANOGRAPHIC AND GEOPHYSICAL SPACE-
SENSOR DISPLAYS.
AD- 838 041

*MICROCOMPUTERS
Multiple Microcomputer Control
Algorithm.
AD-A080 735
Multiple Microcomputer Control
Algorithm Feasibility Breadboard.
AD-A107 940
An Analysis of Microcomputer
Technology for Application to Real-
Time Trainers.
AD-A108 744

*MICROFICHE
An Evaluation of Microfiche
Reader Types for Use with
Programmed Instruction.

AD-A029 714
Demonstration and Evaluation of
a Microfiche-Based Audio/Visual
System. Focus on the Trained Man.
AD-A040 249
Evaluation of Microfiche as an
Instructional Medium in a Technical
Training Environment.
AD-A044 519

*MICROMINATURIZATION (ELECTRONICS)
(*OCEAN MODELS
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*MICROWAVE FREQUENCY
Radar Countermeasures Field
Trainer Device 15E1, Types II, III
and V.
AD- 333 307

*MILITARY PERSONNEL
TRAINING FILM EVALUATION:
COMPARISON BETWEEN TWO FILMS ON
PERSONAL HYGIENE: TF8-155 AND TF8-
1685
AD- 073 887
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517
STUDY OF TELEVISION MULTIPLE
INSERTION TECHNIQUES
AD- 291 762
Analysis of Commercial Contract
Training.
AD-A008 858
Commercial Contract Training,
Navy Area VOTEC Support Center
(AVSC) Guidelines.
AD-A015 329
Analysis of Commercial Contract
Training for the Marine Corps
(Phase II).
AD-A015 330
Commercial Contract Training,
Marine Corps Area VOTEC Support
Center (AVSC) Guidelines.
AD-A015 331
Analysis of Commercial Contract

SUBJECT INDEX-49
UNCLASSIFIED FQP40C

MAT-MIL

UNCLASSIFIED

Training for the Navy.
AD-A016 890

*MILITARY POLICE
EVALUATION OF THE FILM: MILITARY
POLICE SUPPORT IN EMERGENCIES (RIOT
CONTROL) TF19-1701
AD- 073 889

*MILITARY RATIONS
THE RELATIVE EFFECTIVENESS OF
SEVERAL FILM VARIABLES IN MODIFYING
ATTITUDES: A STUDY OF THE
APPLICATION OF FILMS FOR
INFLUENCING THE ACCEPTABILITY OF
FOODS
AD- 105 928

*MILITARY RECRUITS
Navy Recruit Training
Optimization, Post 1980. Phase I:
Current Assessment and Concept for
the Future.
AD-A026 528

*MILITARY RESEARCH
MONTHLY REPT. MARCH - APRIL,
1953
AD- 013 318
MONTHLY REPT. FOR MAY 1952
AD- 013 573
MONTHLY REPT. FOR MARCH 1952
AD- 013 574

*MILITARY RESERVES
HUMAN ENGINEERING STUDY OF NAVAL
AIR RESERVE TRAINING. PHASE I:
SURVEY OF PROBLEMS
AD- 022 812

*MILITARY STRATEGY
DISPLAY SYSTEMS
AUTOMATIC MODEL PROPULSION
SYSTEM FOR 3-D TERRAIN.
AD- 807 719

MAINTENANCE
THE EVALUATION OF
TROUBLESHOOTING STRATEGIES.
AD- 438 924

*MILITARY SUPPLIES
TRAINING
DEVICES UNDER DEVELOPMENT.
TRAINING DEVICE GUIDE. SUPPLEMENT
NO. 1.
AD- 413 883

*MILITARY TACTICS
Basic and Advanced Submarine
Officer's Tactical Training Device
Requirements.
AD- 780 778
Knowledgeable Opponent Models
for Enemy Submarine Tactics in
Training Simulators.
AD-A076 236

TRAINING DEVICES
A Study of Training Device Needs
for Meeting Basic Officer Tactics
Training Requirements. Volume II.
Classified Supplement.
AD- 516 714
Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume II.
AD- 531 491L
Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume I.
AD- 922 929

*MILITARY TRAINING
SURVEY OF TELEVISION UTILIZATION
IN ARMY TRAINING
AD- 008 082
COMPARISON OF TRAINING MEDIA:
TRAINEE MANIPULATION AND
OBSERVATION OF FUNCTIONING
ELECTRICAL SYSTEMS VERSUS TRAINEE
DRAWING OF SCHEMATIC ELECTRICAL
SYSTEMS
AD- 083 934
STUDY OF ARMY AVIATION TRAINING
AD- 109 283
STUDY OF HELICOPTER FLIGHT AND
TACTICS TRAINING
AD- 120 153
STUDY OF CARRIER LANDING

TRAINING
AD- 140 210
SONAR OPERATOR TRAINING: A
REVIEW OF THE LITERATURE
AD- 141 959
TRACKING TRAINING I: AN APPROACH
AD- 143 781
AVIATION MEDICAL SAFETY
TRAINING. PROCEDURES, FINDINGS AND
RECOMMENDATIONS
AD- 149 500
AVIATION MEDICAL SAFETY
TRAINING: RECOMMENDED TRAINING AIDS
AND DEVICES
AD- 150 185
TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY
AD- 230 996
AUGMENTED FEEDBACK AND TRACKING
SKILL
AD- 230 999
FIDELITY OF SIMULATION. I. TIME
SHARING REQUIREMENTS AND CONTROL
LOADING AS FACTORS IN TRANSFER OF
TRAINING
AD- 231 000
PART-VERSUS WHOLE-TASK LEARNING
OF A FLIGHT MANEUVER
AD- 242 580
THE EFFECTIVENESS,
ACCEPTABILITY, AND FEASIBILITY OF
TECHNICAL TRAINING COURSES RECORDED
ON SOUND MOTION PICTURES AND SLIDES
PLUS TAPES
AD- 242 697
THE ACCEPTABILITY AND
EFFECTIVENESS OF THE CASUAL USE OF
AUDITORY TRAINING AIDS
AD- 243 219
TEAM TRAINING II: INDIVIDUAL
LEARNING AND TEAM PERFORMANCE
AD- 247 147
SIMULTANEOUS VS. SUCCESSIVE
PRESENTATION OF RELATIVE MOTION
PROBLEMS
AD- 248 419
APPLICATION OF INFRARED
TECHNIQUES TO MILITARY TRAINING.
PHASE II. A CONSIDERATION OF
SPECIFIC MILITARY TRAINING
APPLICATIONS

SUBJECT INDEX-80
UNCLASSIFIED FQP40C

MIL-NIL

UNCLASSIFIED

AD- 267 685
APPLICATION OF INFRARED
TECHNIQUES TO MILITARY TRAINING.
PHASE I. A GENERAL EXAMINATION OF
THE TECHNOLOGY
AD- 268 042
EFFECTS OF INDUCED STRESS ON
LEARNING PERFORMANCE
AD- 283 105
EFFECTS OF INDUCED STRESS IN A
NAVAL TRAINING SCHOOL
AD- 284 679
SEMINAR ON HUMAN FACTORS IN
MILITARY TRAINING
AD- 288 489
HUMAN FACTOR ANALYSIS OF TEAM
TRAINING (U)
AD- 315 350
Laser Man Versus Man Weapon Fire
Simulation.
AD- 770 619
An Evaluation of Ten Techniques
for Choosing Instructional Media.
AD- 773 456
Design of Training Systems Phase
I Summary Report.
AD- 773 458
Basic and Advanced Submarine
Officer's Tactical Training Device
Requirements.
AD- 780 778
A Technique for Choosing Cost-
Effective Instructional Delivery
Systems.
AD-A012 859
Military Instructor Training in
Transition.
AD-A013 330
Decision Analysis and Its
Application to the Naval Education
and Training Command.
AD-A015 625
Design of Training Systems -
Program Maintenance Manual Data
Base, ETE, SCRR, and TPF Models.
Focus on the Trained Man.
AD-A018 089
Learning Guidelines and
Algorithms for Types of Training
Objectives.
AD-A023 086

Training Effectiveness
Assessment. Volume I. Current
Military Training Evaluation
Programs.
AD-A036 517
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 18A3.
Volume I. Sections 1 through 4.
AD-A038 796
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 18A3.
Volume III. Sections 5.6 through
5.10.
AD-A038 798
Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 18A3.
Volume IV. Section 8 and Appendix
A.
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Interservice/Industry Training
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for Training and Aiding the
Technician.
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Equipment Conference and Exhibition
(3rd), Orlando, Florida, 30
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Functional Design for Air
Intercept Controller Prototype
Training System.
AD-A113 208
AERONAUTICS
SOURCE BOOK ON THE APPLICATION
OF RESEARCH TO GROUND TRAINING IN
AVIATION.
AD- 651 675
ANALYSIS
AN EVALUATION OF VARIOUS
TACHISTOSCOPIC AND WEFT TECHNIQUES

IN AIRCRAFT RECOGNITION.
AD- 626 488
ANTIAIRCRAFT GUNNERY
TRAINING 90 MM AA GUN CREWS.
APPENDIX I. HISTORY OF THE
PROJECT.
AD- 642 588
TRAINING 90 MM AA GUN CREWS.
APPENDIX II. STATISTICAL ANALYSIS.
AD- 642 588
TRAINING 90 MM AA GUN CREWS.
APPENDIX III. A RECOMMENDED PROGRAM
FOR ADVANCED INDIVIDUAL TRAINING IN
ANTIAIRCRAFT ARTILLERY.
AD- 642 589
TRAINING 90 MM GUN CREWS.
APPENDIX V. FOLLOW-UP STUDY OF
RECOMMENDED PROCEDURES AND TRAINING
AIDS.
AD- 642 590
AUDITORY PERCEPTION
INTENSITY MONITORING PERFORMANCE
AS A FUNCTION OF TRAINING.
AD- 639 098
AUTOMATION
Automated Training Evaluation
(ATE).
AD- 738 932
CLASSIFICATION
A Task Classification Approach
to Military Training Problems: A
Working Paper.
AD- 713 686
COMBAT INFORMATION CENTERS
EXPERIMENTS ON TEAM TRAINING IN
A CIC-TYPE TASK ENVIRONMENT.
AD- 608 309
TEAM TRAINING.
AD- 660 019
EFFECTIVENESS
The Training Effectiveness of
Device 3A105, Tracked Vehicle
Driving Trainer (M48A3).
AD- 754 097

SUBJECT INDEX-51
UNCLASSIFIED FQP40C

MIL-MIL

UNCLASSIFIED

FLIGHT SIMULATORS
Development of Behavioral
Science Programming Language.
AD- 726 432

IMAGE INTENSIFIERS(ELECTRONICS)
SOLID STATE IMAGE INTENSIFIERS.
PHASE III. A BROAD CONTINUING
PROGRAM FOR THE APPLICATION OF
LIGHT AND IMAGE INTENSIFICATION
TECHNIQUES TO MILITARY TRAINING.
AD- 619 066

INTELLIGIBILITY
THE RELATIONSHIP BETWEEN TALKER
INTELLIGIBILITY AND MESSAGE
FAMILIARITY.
AD- 639 097

COMMUNICATION IN NOISE: SUCCESS
RELATED TO THREE DEGREES OF
EMPHASIS ON VERBAL CONTEXT.
AD- 639 099

MARINE CORPS
TRAINING SITUATION ANALYSIS
REPORT FOR THE MARINE TACTICAL DATA
SYSTEM.
AD- 376 639

MOTIVATION
Motivation in Training: A Study
of Incentives.
AD- 739 330

NAVAL OPERATIONS
Training Aspects of Computer-
Aided Decision Making. I.
Comparison of Two Approaches to Man-
Computer Interaction.
AD- 842 370

Decision-Making Study Final
Report. 1. An Experimental
Evaluation of Tactrain: An
Approach to Computer-Aided Tactical
Decision-Making Training.
AD- 875 911

SYMPOSIA
INTRODUCTORY COURSE ON TRAINING
SITUATION ANALYSIS PROCEDURE.
AD- 623 385

*MINESWEEPERS
HUMAN FACTORS ENGINEERING
A STUDY OF THE PLOTTING AND
COMMUNICATION FACILITIES IN THE
CHART ROOM OF UOL-EQUIPPED
MINESWEEPERS.
AD- 643 205

*MNEMONICS
Use of Mnemonics in Training
Materials. A Guide for Technical
Writers.
AD-A064 218
Symbol Learning in Navy
Technical Training: An Evaluation
of Strategies and Mnemonics.
AD-A088 041

*MOIRE EFFECTS
An Investigation of the Use of
Moire Patterns for Computer-
Generated Display Instrument Faces.
AD- 780 420

*MONITORS
CALIBRATION
PREDICTION AND CONTROL OF
ALERTNESS. III. CALIBRATION OF
THE ALERTNESS INDICATOR AND FURTHER
RESULTS.
AD- 639 044

*MONOCHROMATIC LIGHT
MODULATION
Review of Polarization. Crystal
Optics, and Electro-Optic
Phenomena.
AD- 880 732

*MOORING
DESTROYERS
Experimental Model Visual
Display for Ship-Handling Trainers.
AD- 753 213

NAVAL VESSELS
EQUATIONS OF MOTION FOR MOORING
AND DOCKING MANEUVERS OF A
DESTROYER AND A SURFACED SUBMARINE.
AD- 647 266

*MORTAR AMMUNITION
REDESIGN OF 81MM MORTAR SHELL.
HE, T28E6
AD- 084 312

*MORTAR FUZES
ENGINEERING AND MANUFACTURING
PROGRESS REPORT (POINT-DETONATING
FUZES)
AD- 057 216

*MOTION
RELATIVE MOTION II: THE NATURE
OF RELATIVE MOTION SITUATIONS
AD- 238 775
RELATIVE MOTION. III. SOME
RELATIVE MOTION PROBLEMS IN
AVIATION
AD- 256 346
An Experimental Investigation of
the Role of Motion in Ground-Based
Trainers.
AD- 778 665
Factors Surrounding Motion
Platform - Visual System Coupling
in Flight Simulators.
AD-A006 462
Motion in Flight Simulation: An
Annotated Bibliography.
AD-A061 687

PERCEPTION(PSYCHOLOGY)
AN ANALYSIS OF INDUCED MOTION.
AD- 630 275

PSYCHOLOGICAL TESTS
A LINEAR MOTION CHARACTERISTICS
RECORDER.
AD- 639 288

*MOTION PICTURE PHOTOGRAPHY
A STUDY OF THE FEASIBILITY OF
LOCAL PRODUCTION OF MINIMUM COST
SOUND MOTION PICTURES
AD- 078 539
Investigation of Cincholographic
System Characteristics I.
Theoretical Treatment of Special
Holographic Techniques used in
Cincholography.
AD- 776 652

SUBJECT INDEX-52
UNCLASSIFIED FQP40C

MIN-MOT

UNCLASSIFIED

*MOTION PICTURE PROJECTORS
OPTIMUM PHYSICAL VIEWING
CONDITIONS FOR A REAR PROJECTION
DAYLIGHT SCREEN

AD- 047 609

Comparison of Cassette versus
Reel-to-Reel Super 8mm Film
Projection Systems.

AD-8019 111L

FRAMES(PHOTOGRAPHS)

Stop Frame Investigation Video
Tape Versus Movie Film.

AD-8010 084L

TELESCOPIC GUN SIGHTS

Study, Large-Screen Quick-Stop
Projector.

AD- 754 742

*MOTION PICTURES

THE EFFECT OF A PRE-FILM TEST ON
LEARNING FROM AN EDUCATIONAL SOUND
MOTION PICTURE

AD- 010 042

THE EFFECTS OF KNOWLEDGE OF TEST
RESULTS ON LEARNING OF MEANINGFUL
MATERIAL

AD- 010 044

EFFECTS OF STEREOSCOPIC SOUND
MOTION PICTURE ON THE LEARNING OF A
PERCEPTUAL-MOTOR TASK

AD- 010 045

EFFECTS ON LEARNING OF THE
PROMINENCE OF ORGANIZATIONAL
OUTLINES IN INSTRUCTIONAL FILMS

AD- 010 048

INSTRUCTIONAL EFFECT OF THE FILM
"HOW TO OPERATE THE ARMY 16MM
SOUND PROJECTOR SET"

AD- 010 892

EFFECT OF MENTAL HYGIENE FILMS
ON NORMAL AND ABNORMAL INDIVIDUALS

AD- 090 594

THE EFFECTIVENESS,
ACCEPTABILITY, AND FEASIBILITY OF
TECHNICAL TRAINING COURSES RECORDED
ON SOUND MOTION PICTURES AND SLIDES
PLUS TAPES

AD- 242 897

ADJUSTMENT(PSYCHOLOGY)
THE EFFECTS OF MENTAL HYGIENE
FILMS ON SELF-REGARDING ATTITUDES.
(RAPID MASS LEARNING).

AD- 840 884

ANALYSIS OF VARIANCE

Effects on Training of
Experimental Film Variables. Study
I: Verbalization, Rate of
Development, Nomenclature, Errors,
'How-it-Works', Repetition (Rapid
Mass Learning).

AD- 764 041

*MOTION SICKNESS

Simulator Sickness Occurrences
in the 2E6 Air Combat Maneuvering
Simulator (ACMS).

AD-A097 742

VISUAL PERCEPTION

PERCEPTUAL VERTIGO: A
DIMENSIONAL STUDY.

AD- 825 525

*MOTIVATION

MILITARY TRAINING

Motivation in Training: A Study
of Incentives.

AD- 139 330

MOTOR REACTIONS

THE EFFECT OF SPEED-UP
INSTRUCTIONS UPON THE PERFORMANCE
OF DISCRETE MOVEMENTS IN THE
HORIZONTAL PLANE.

AD- 839 283

*MOTOR REACTIONS

ON THE RELATIVE IMPORTANCE OF
TIME SHARING AT CENTRAL AND
PERIPHERAL LEVELS

AD- 230 998

MOTIVATION

THE EFFECT OF SPEED-UP
INSTRUCTIONS UPON THE PERFORMANCE
OF DISCRETE MOVEMENTS IN THE
HORIZONTAL PLANE.

AD- 839 283

PERFORMANCE(HUMAN)

STUDIES IN COMPLEX COORDINATION.
I. PERFORMANCE ON THE TWO-HAND
COORDINATOR AS A FUNCTION OF THE
PLANES OF OPERATION OF THE
CONTROLS.

AD- 857 192

TRAINING

EXPLORATIONS IN THE AUTOMATION
OF SENSORIMOTOR SKILL TRAINING.

AD- 819 048

TRANSFER OF TRAINING

ON THE SCHEDULING OF TRAINING
CONDITIONS FOR THE ACQUISITION AND
TRANSFER OF PERCEPTUAL-MOTOR SKILLS.

AD- 279 208

A STUDY OF TRANSFER IN A MOTOR
TASK WITH VARYING DISPLAY-CONTROL
RELATIONSHIPS.

AD- 841 580

TRANSFER OF TRAINING FROM
PRACTICE ON COMPONENTS IN A MOTOR
SKILL.

AD- 841 581

THE MEASUREMENT OF TRANSFER OF
TRAINING.

AD- 841 582

TRANSFER OF DISCRIMINATION TO A
MOTOR TASK.

AD- 841 583

TRANSFER TO A MOTOR SKILL FROM
PRACTICE ON A PICTURED
REPRESENTATION.

AD- 841 584

ON THE RELATION BETWEEN
SIMILARITY AND TRANSFER OF TRAINING
IN THE LEARNING OF DISCRIMINATIVE
MOTOR TASKS.

AD- 841 585

TRANSFER OF TRAINING TO A MOTOR
SKILL AS A FUNCTION OF VARIATION IN
RATE OF RESPONSE.

AD- 841 586

TRANSFER OF TRAINING TO A MOTOR
TASK IN RELATION TO STIMULUS
SIMILARITY.

AD- 841 587

FURTHER ATTEMPTS TO DEMONSTRATE
INTERFERENCE IN THE PERFORMANCE OF

SUBJECT INDEX-53
UNCLASSIFIED FQP40C

MOT-MOT

UNCLASSIFIED

ROTARY PURSUIT TASKS.
AD- 643 858

*MOTOR VEHICLE OPERATORS
A STUDY OF THE LEARNING OF
SELECTED DRIVING SKILLS THROUGH
EXPOSURE TO A SPECIALLY PRODUCED
MOTION PICTURE FILM
AD- 237 913

PERFORMANCE(HUMAN)
LABORATORY AND ROAD TESTS OF THE
PORTABLE ALERTNESS INDICATOR.
AD- 639 043

*MUSCLES
CONTRACTION
THE EFFECTS OF INDUCED MUSCLE
TENSION AND AUDITORY STIMULATION ON
TACHISTOSCOPIC PERCEPTION,
AD- 631 840

MOTOR REACTIONS
PREDICTION OF SPEED OF
PERFORMANCE BY MUSCLE ACTION
POTENTIALS,
AD- 629 759

*MUSIC
TRAINING FILMS
Music in Motion Pictures:
Review of Literature with
Implications for Instructional
Films (Rapid Mass Learning).
AD- 784 035

*NAVAL AIRCRAFT
INSTRUCTION MANUALS
Development of a Military
Specification for NATOPS Flight
Manuals.
AD- 859 345

MAINTENANCE
Analysis and Evaluation of Navy
Avionics Manuals.
AD- 880 414

NAVAL TRAINING
IMPROVING PILOTING SKILLS IN
TURBULENT AIR USING A SELF-ADAPTIVE

TECHNIQUE FOR A DIGITAL OPERATIONAL
FLIGHT TRAINER.
AD- 675 805

*NAVAL AVIATION
STUDY OF POINT LIGHT SOURCE
PROJECT:ON SYSTEM COMPONENTS
AD- 233 882
Training Analysis of P-3
Replacement Pilot Training.
AD- 777 428
Capabilities in Wide Angle
visual Technology.
AD-A002 708
Preliminary Specifications for
an AWG-9 WCS Maintenance Trainer
for the F-14 Aircraft.
AD-A009 385
Holographic Heads-Up Display for
Naval Aviation Training.
AD-A011 819
Instructor Pilot's Role in
Simulator Training.
AD-A023 548
Training Situation Analysis for
the Advance Helicopter Flight
Training Phase.
AD-A032 771
A Study of the Effectiveness,
Feasibility, and Resource
Requirements of Instructional
Systems Development: EA-88
Readiness Training.
AD-A035 816
E-2 C Systems Approach to
Training. Phase I.
AD-A038 284
Instructional Systems Design:
the Naval/Navtraequippen Model.
AD-A060 459

HANDBOOKS
Military Specification for
Preparation of NATOPS Flight
Manuals.
AD- 857 295

INSTRUCTION MANUALS
THE DEVELOPMENT OF A PROTOTYPE
SPECIFICATION FOR THE PREPARATION
OF MILITARY FLIGHT MANUALS.

SUBJECT INDEX-64
UNCLASSIFIED FQP40C

AD- 642 322

INSTRUCTORS
CONSTRUCTION OF THREE MEASURES
FOR INSTRUCTOR EVALUATION.
AD- 641 590
PRELIMINARY VALIDATION OF THE
INSTRUCTORS EVALUATION REPORT.
AD- 641 591
AMPLIFYING THE INSTRUCTOR
TRAINING PROGRAM IN THE NAVAL AIR
BASIC TRAINING COMMAND.
AD- 641 597

JOB ANALYSIS
REPORT ON BILLET ANALYSIS AND
EVALUATION.
AD- 641 586

STUDENTS
ACADEMIC GRADES OF STUDENTS IN
THE NAVAL SCHOOL OF PRE-FLIGHT.
AD- 641 588
SUPPLEMENTARY REPORT ON PROJECT
ON PRE-FLIGHT GRADES.
AD- 641 592
A STUDY OF INDIVIDUAL
DIFFERENCES AMONG NAVAL AVIATION
STUDENTS.
AD- 641 593
STUDY SKILLS OF NAVAL AVIATION
STUDENTS: ANALYSIS OF THE PROBLEM
AND RECOMMENDATIONS.
AD- 641 594

TRAINING
A SUMMARY OF OPERATIONAL
RESEARCH IN THE NAVAL AIR TRAINING
COMMAND.
AD- 641 589
THE DEVELOPMENT OF AVIATION
TRAINING SYLLABUS MATERIAL.
AD- 641 595
EDUCATIONAL RESEARCH PROJECT.
AD- 641 598
THE TRAINING SURVEY: A METHOD
OF EVALUATING TRAINING WITH THE
1948 ANNUAL SURVEY AS AN EXAMPLE.
AD- 641 599
TRAINING BY TELEVISION. THE
COMPARATIVE EFFECTIVENESS OF

MOT-NAV

UNCLASSIFIED

INSTRUCTION BY TELEVISION,
TELEVISION RECORDINGS, AND
CONVENTIONAL CLASSROOM PROCEDURES,
AD- 642 396
PSYCHOLOGICAL STUDIES OF
ADVANCED NAVAL AIR TRAINING:
ANALYSIS OF FLIGHT PERFORMANCE
RATINGS.
AD- 654 581
Staff Study on Cost and Training
Effectiveness of Proposed Training
Systems.
AD- 748 593
Special Devices in Primary
Flight Training: Their Training
and Selection Value. A Summary
Report.
AD- 764 033
TRAINING DEVICES
KINETIC CUEING IN SIMULATED
CARRIER APPROACHES.
AD- 617 689
Man-The Focus of the Training
System. Proceedings of the Naval
Training Equipment Center and
Industry Conference (6th), Held on
November 13-15, 1973.
AD- 768 756
*NAVAL BUDGETS
The CNET Automated Budget System
(CABS).
AD-A073 136
The CNET Automated Budget System
(CABS) II.
AD-A089 847
CNET OPN Automated Budget System
(COABS).
AD-A098 485
*NAVAL COMMUNICATIONS
A STUDY OF TYPE AND FREQUENCY OF
COMMUNICATION MESSAGES ABOARD NAVAL
VESSELS
AD- 078 536
*NAVAL OPERATIONS
A STUDY OF TYPE AND FREQUENCY OF
COMMUNICATION MESSAGES ABOARD NAVAL
VESSELS

AD- 078 536
DEFENSE SYSTEMS
AIRBORNE AIR DEFENSE OF THE
FLEET (HUMAN ENGINEERING SYSTEMS
STUDIES).
AD- 385 884
*NAVAL PERSONNEL
COMPARISON OF TRAINING MEDIA:
TRAINEE MANIPULATION AND
OBSERVATION OF FUNCTIONING
ELECTRICAL SYSTEMS VERSUS TRAINEE
DRAWING OF SCHEMATIC ELECTRICAL
SYSTEMS
AD- 063 934
A FIELD STUDY OF VOICE
COMMUNICATION PROBLEMS AS RELATED
TO TRAINING DEVICES, PROCEDURE AND
EQUIPMENT
AD- 075 348
THE TELEVISION PROGRAM AT THE
SPECIAL DEVICES CENTER
AD- 125 053
TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY
AD- 230 998
FIDELITY OF SIMULATION. I. TIME
SHARING REQUIREMENTS AND CONTROL
LOADING AS FACTORS IN TRANSFER OF
TRAINING
AD- 231 000
PRINCIPLES AND PRELIMINARY
RECOMMENDATIONS FOR A CORE SYSTEM
OF NAVY RADAR OPERATOR TRAINING
DEVICES
AD- 238 778
TEAM TRAINING II: INDIVIDUAL
LEARNING AND TEAM PERFORMANCE
AD- 247 147
HUMAN FACTOR ANALYSIS OF TEAM
TRAINING (U)
AD- 315 350
Computer Managed Instruction in
Navy Training.
AD- 777 040
Development and Research
Utilizing the Plato IV System for
Company Commander Behavioral Change
Training.
AD-A014 213

Procedures for Questionnaire
Development and Use in Navy
Training Feedback.
AD-A018 089
Electronic Warfare Maintenance
Training Analysis, Executive
Summary.
AD-A018 445
Navy Recruit Training
Optimization, Post 1980. Phase I:
Current Assessment and Concept for
the Future.
AD-A026 528
Selection and Training of Navy
Recruit Company Commanders.
AD-A062 847
Selection, Training, and
Utilization of Navy Recruit
Training Command Officers.
AD-A086 403
LEARNING
Study of Long-Term Skill
Retention.
AD- 503 679
NAVAL TRAINING
OCEANOGRAPHIC AND HYDROGRAPHIC
SYSTEMS FOR TRAINING.
AD- 649 815
TRAINING
ASSAULT BOAT COXSAIN TRAINER
FEASIBILITY STUDY.
AD- 809 071
*NAVAL PROCUREMENT
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1979.
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Training Device Center and Industry
Conference 19-21 November 1968.
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MONTHLY REPT. MARCH - APRIL,
1953
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SUBJECT INDEX-55
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

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Analysis of Alternative Methods for Support for Naval Tactical Data System (NTDS) Operator Training.
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AD- 771 415
Automated Flight Training (AFT). GCI/CIC Air Attack.
AD- 772 503
Training Effectiveness Evaluation of a Prototype Water-Spray Smoke Abatement System for Fire Fighting Training.
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Design of Training Systems, Phase I Report. Volume 1.
AD- 774 931
Design of Training Systems, Phase I Report. Volume 2. Appendices.
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Application of Simulation to Individualized Self-Paced Training.
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Trainee Performance Measurement Development Using Multivariate Measure Selection Techniques.
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Training Situation Analysis Study for the T-34C Expanded Primary Flight Training Phase.
AD-A002 258
Tactical Decision-Making Training System Design.
AD-A002 704
Field Evaluation of Model II of the Computer-Based, Individual Trainer for the Radar Intercept Officer.
AD-A002 705
Capabilities in Wide Angle visual Technology.
AD-A002 708
Feasibility Demonstration of a Non-Pollutant Synthetic Fire Fighting Trainer.
AD-A003 011
Math Model for Naval Ship Handling Trainer.
AD-A003 945
Design of Training Systems, Phase II Report. Volume I. Phase II Overview.
AD-A004 929
Design of Training Systems, Phase II Report. Volume III. Model Program Descriptions and Operating Procedures.
AD-A004 930
Design of Training Systems, Phase II Report. Volume II. Detailed Model Descriptions.
AD-A005 414
Generalized Training Devices for Avionic Systems Maintenance.
AD-A009 805
A Method for Obtaining Post Formal Training Feedback. Development and Validation.
AD-A011 118
Holographic Heads-Up Display for Naval Aviation Training.
AD-A011 819
The Feasibility of Generalized Acoustic Sensor Operator Training.
AD-A011 848
Design of Training Systems, Phase II-A Report. An Educational Technology Assessment Model (ETAM).
AD-A015 295
Mathematical Model of an Air Cushion Vehicle.
AD-A015 699
Electronic Warfare Maintenance Training Analysis, Executive Summary.
AD-A018 445
Electronic Warfare Maintenance Training Analysis.
AD-A019 191
The Effect of Delay in the Presentation of Visual Information on Pilot Performance.
AD-A021 418
A Primer on Economic Analysis for Naval Training Systems.
AD-A024 214
Design of Training Systems Phase III Report.
AD-A024 482
Advanced Concepts of Naval Engineering Maintenance Training. Volume I.
AD-A024 860
Advanced Concepts of Naval Engineering Maintenance Training. Volume II. Appendix F.
AD-A024 866
Design of Training Systems Utility Assessment. The Training Process Flow and System Capabilities/Requirements and Resources Models Operating in the TRAPAC Environment.
AD-A026 289
Navy Recruit Training Optimization, Post 1980. Phase I: Current Assessment and Concept for the Future.
AD-A026 528
Training Characteristics of the Automated Adaptive Ground Controlled Approach Radar Controller Training System (GCA-

SUBJECT INDEX-56
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

- CTS).
AD-A027 503
A Field Test of the PLATO IV System for Company Commander Behavioral Change Training.
AD-A027 701
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AD-A028 885
A Study to Develop Management Indices for the Chief of Naval Education and Training. Phase II - Capital Resource Indices.
AD-A029 195
An Introduction to Technical Hands-On Training System (THOTS).
AD-A032 455
Use of Computer Speech Understanding in Training: A Demonstration Training System for the Ground Controlled Approach Controller.
AD-A033 327
A Study of the Effectiveness, Feasibility, and Resource Requirements of Instructional Systems Development: EA-6B Readiness Training.
AD-A035 618
Centralized Instructor Training for Naval Technical Training.
AD-A036 477
Training Effectiveness Assessment. Volume II. Problems, Concepts, and Evaluation Alternatives.
AD-A036 518
A-BE Systems Approach to Training. Phase I.
AD-A037 468
Ship Handling and Ship Handling Training.
AD-A038 402
Computer Managed Instruction by Satellite: Phase I, A Feasibility Study.
AD-A040 139
Design of Training Systems. TRAPAC User's Manual, Data Base, SCRR, and TPF Models.
AD-A040 238
Demonstration and Evaluation of a Microfiche-Based Audio/Visual System. Focus on the Trained Man.
AD-A040 249
Training Requirements for the Naval Technical Information Presentation Program: A Needs Assessment.
AD-A040 260
Design of Training Systems. Computerization of the Educational Technology Assessment Model (ETAM). Volume 1.
AD-A041 217
Design of Training Systems. Computerization of the Educational Technology Assessment Model (ETAM). Volume 2.
AD-A041 261
Officer Candidate School Curriculum Optimization.
AD-A041 466
Cylindrical Holograms for Target Recognition Training.
AD-A042 430
Precommissioning Training.
AD-A043 169
Academic Attrition from Navy Technical Training Class 'A' School Courses.
AD-A044 029
The Management of Defense System and Equipment Training: A Guide for the Naval Educator and Training Command.
AD-A046 025
Design of Training Systems. Phase IV Report.
AD-A046 700
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AD-A047 648
An Heuristic Approach for the Scheduling of Navy Training Courses.
AD-A048 183
Air Intercept Controller Training: A Preliminary Review.
AD-A048 796
Demonstration of a Methodology for Classifying Naval Training Courses.
AD-A048 991
Training Device Design: The Simulation/Stimulation Controversy.
AD-A049 973
Design of Training Systems: The Development of Scaling Procedures.
AD-A051 847
Navy Recruit Training Optimization, Post-Current Assessment
AD-A053 007
Development and Implementation of a Computerized Training System (CI) for a Recruit Training Command.
AD-A055 422
U.S. Navy Fleet Aviation Training Program Development.
AD-A055 788
Development of the Navy Consolidated Electronic Warfare Operator Curriculum. Focus on the Trained Man.
AD-A057 011
Experimental Research for Advanced Firefighting Simulators.
AD-A057 216
Navy Training Command Naval Flight Officer Training Situation Analysis.
AD-A058 392
Analysis of Requirements and Methodology for Decision Training in Operational Systems.
AD-A060 028
Instructional Systems Design: the Navair/Navtraequipcen Model.
AD-A060 459
Study to Improve the Resource Requirement Request (RRR) Process in the NAVEDTRACOM.
AD-A080 815
F-4J/N Instructional System Development: Phase I.
AD-A081 098
Selection and Training of Navy

SUBJECT INDEX-57
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

Recruit Company Commanders.
AD-A062 647
Applications of Advanced
Experimental Methodologies to AWAWS
Training Research.
AD-A064 332
The Design of a Shiphandling
Training System.
AD-A065 095
Computer-Assisted Judging and
Feedback of Interpersonal Skills.
AD-A066 222
Issues in the ISD Process: The
NAVAIR/NAVTRAEQUIPCEN Model.
AD-A068 324
Symbol Learning in Navy
Technical Training: An Evaluation
of Strategies and Mnemonics. . .
AD-A068 041
Navy Recruit Training
Optimization, Post 1980: Training
System Design and A Plan for
Implementation.
AD-A068 473
Navy Recruit Training
Optimization, Post-1980: Training
System Design and a Plan for
Implementation. Supplement I. Topic
Worksheet Summaries for Use with
Lesson Plan Development.
AD-A068 536
Ground Controlled Approach
Controller Training System.
AD-A069 036
Ground Controlled Approach
Controller Training System
Training/Functional Design Report.
AD-A069 056
A Laboratory System for Air
Intercept Controller Training.
AD-A069 060
Predictor Displays in Carrier
Landing Training.
AD-A069 890
A Cost Management Control
Procedure for Initial Training in
Surface Ship Acquisition Programs.
AD-A070 037
Automated Course Scheduling
System for Naval Training.
AD-A071 576

Training Assistance Technology
Investigation.
AD-A072 030
Proposed OPNAV Instruction for
Test and Evaluation of Navy
Training Devices Procured under RDT
and E Funding.
AD-A073 402
Problem Analysis and the Program
Master Plan: Key Elements in the
Instruction System Development
Process.
AD-A075 389
Knowledgeable Opponent Models
for Enemy Submarine Tactics in
Training Simulators.
AD-A076 236
Air Combat Maneuvering
Performance Measurement.
AD-A077 429
An Incremental Costing Method
for Resource Allocation in Navy
Training.
AD-A078 685
Development and Evaluation of a
Remedial Reading Workbook for Navy
Training.
AD-A079 288
Evaluation of Mess Management
Specialist (MS) 'A' School Training
by Advanced MS NAVEDTRACOM Students
and by Fleet MS Personnel.
AD-A079 558
An Assessment of Individualized
Instruction in Navy Technical
Training.
AD-A080 183
Proceedings of LSD Training R&D
Seminar, Held at Jacksonville,
Florida on 22-23 January 1980.
AD-A082 310
Learning of Procedures in Navy
Technical Training: An Evaluation
of Strategies and Formats.
AD-A084 067
Electronic Warfare Training
Analysis.
AD-A086 545
Naval Training Equipment Center
Index of Technical Reports.
AD-A086 783

Student Flow Simulation Model
for Navy Consolidated Electronic
Warfare Training.
AD-A088 882
The Prediction of Performance in
Navy Signalman Class 'A' School.
AD-A090 286
A Directory of Sources of
Information and Data Bases on
Education and Training.
AD-A091 013
Application of Random Access
Video Programs in Navy Electronic
Warfare Training.
AD-A091 211
F-14 Instructional System
Development Program.
AD-A093 767
Numerical Skills of Navy
Students: An Evaluation of a Skill
Development Workbook.
AD-A094 453
Field Test of Guidelines for the
Development of Memory Aids in
Technical Training.
AD-A094 891
Assessment of Surface Navy ECCM
Training, 1975 to 1980.
AD-A095 006
Landing Signal Officer (LSO)
Laboratory System Software.
AD-A095 730
Linking Training Course Support
to Fleet Platforms: An Equipment-
Based Approach.
AD-A095 965
Development and Evaluation of a
Remedial Numerical Skills Workbook
for Navy Training.
AD-A096 073
Training Characteristics of LSD
Reverse Display.
AD-A096 864
A Structured Interview
Methodology for Collecting Training
Feedback Information.
AD-A097 671
Course Scheduling Model for the
Naval Training Command.
AD-A098 411
CNET OPN Automated Budget System

SUBJECT INDEX-58
UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

(COABS).
 AD-A098 485
 An Assessment of Leadership
 Training Requirements for Navy
 Recruit Training Division Officers.
 AD-A100 278
 A Review of Navy Training Device
 Utilization Reporting Procedures.
 AD-A100 279
 An Analysis of Factors Affecting
 the Siting of Navy Instructor
 Training.
 AD-A102 464
 Design Concepts for Semi-Open-
 Bay Barracks for Use by Navy 'A'
 School Students.
 AD-A103 578
 Preparation and Design for a
 Training Effectiveness Evaluation
 of Device 2F64C for Replacement
 Pilot Training.
 AD-A106 939
 Prototype Equipment Student
 Guide for ACE (Air Intercept
 Controller Prototype Training
 System).
 AD-A106 999
 Behavioral Objectives for Air
 Intercept Controller Prototype
 Training System.
 AD-A107 001
 Training Improvements for the
 Tactical Aircrew Training System
 (TACTS): Project Summary Report.
 AD-A107 003
 Development of a Computer Based
 Air Combat Maneuvering Range
 Debrief System. Volume I.
 AD-A107 342
 An Assessment of the Navy
 Curriculum and Instructional
 Standards Office (CISO).
 AD-A108 213
 Improved Procedures Training
 through Use of Aids Developed from
 Learning Guidelines.
 AD-A113 109
 Assessment of the Need for
 Verbal Language Instruction for
 Navy Recruits.
 AD-A113 375

Functional Requirement for Air
 Intercept Controller Prototype
 Training System.
 AD-A114 318
 A Guide for Preparing Procedure
 Training Aids.
 AD-A114 408
 Techniques for Measuring the
 Utilization of Major Surface and
 Undersea Training Devices in Terms
 of Life-Cycle Costs and Employment
 Practices.
 AD-A950 974
 Comparison of Cassette versus
 Reel-to-Reel Super 8mm Film
 Projection Systems.
 AD-B019 111L
 Analysis of Alternative Methods
 for Support for Naval Tactical Data
 System (NTDS) Operator Training.
 AD-B024 629L
 ADAPTIVE SYSTEMS
 THE EFFECTS OF ADAPTIVE STEPPING
 CRITERION ON TRACKING PERFORMANCE:
 A PRELIMINARY INVESTIGATION.
 AD- 698 792
 AERIAL GUNNERS
 STUDY OF BASIC FIXED GUNNERY.
 AD- 841 824
 AERIAL GUNNERY
 STUDIES OF NAVAL AIR BASIC
 TRAINING: FIXED GUNNERY PHASE.
 AD- 660 029
 Seismic Scoring System for Air-
 to-Ground Weapons Training Ranges.
 AD- 723 582
 BIBLIOGRAPHIES
 Naval Training Equipment Center
 Index of Technical Reports.
 AD- 917 494L
 COMBAT INFORMATION CENTERS
 TEAM TRAINING RESEARCH.
 AD- 477 983
 LABORATORY RESEARCH ON TEAM
 TRAINING.
 AD- 485 836

COMMUNICATION THEORY
 TRAINING ANALYSIS PROCEDURE
 (TAP), VOLUME I: THEORETICAL
 DEVELOPMENT.
 AD- 434 818

COST EFFECTIVENESS
 Staff Study on Cost and Training
 Effectiveness of Proposed Training
 Systems.
 AD- 748 593

DATA PROCESSING
 Analog Computer Simulation of
 Destroyer Mooring and Docking.
 (Phase I).
 AD- 853 352

EFFECTIVENESS
 EXPERIMENTAL TRAINING SITUATION
 ANALYSIS (TSA) AND APPLICATION OF
 TRAINING ANALYSIS PROCEDURES (TAP)
 TO TWO MILITARY SYSTEMS.
 AD- 378 180
 AN INTEGRATED APPROACH TO THE
 STUDY OF LEARNING, RETENTION, AND
 TRANSFER. A KEY ISSUE IN TRAINING
 DEVICE RESEARCH AND DEVELOPMENT.
 AD- 712 098
 Study of Training Equipment and
 Individual Differences: Research on
 Interactive Relationships Among
 Learner Characteristics, Types of
 Learning, Instructional Methods,
 and Subject Matter Variables.
 AD- 871 812

ELECTRONIC COUNTER COUNTERMEASURES
 Surface Navy ECCM Training
 Analysis.
 AD-B008 049L

FIRE CONTROL SYSTEMS
 Design Characteristics of a
 Generalized Fire-Control System
 Maintenance Trainer (GFC-MT).
 AD- 733 983

FLIGHT CREWS
 Study, Feasibility and Criteria
 for an Air ASW Tactical Trainer

SUBJECT INDEX-59
 UNCLASSIFIED FQP40C

NAV-NAV

UNCLASSIFIED

Complex.
AD- 529 337L
Task Analysis OF Pilot, Copilot,
and Flight Engineer Positions for
the P-3 Aircraft.
AD- 766 445

GROUP DYNAMICS
Automated Operator Instruction
in Team Tactics.
AD- 736 970

GUNNERY
Semiconductor Laser Weapon Fire
Simulators for Pop-Up and Aerial
Target Engagement Training.
AD- 742 084

HUMAN FACTORS ENGINEERING
PROCEDURES AND RESEARCH PLANNING
FOR ANTI-AIR WARFARE TRAINING
PROGRAM,
AD- 447 537

INSTRUMENT FLIGHT
Automated Flight Training (AFT).
Instrument Flight Maneuvers.
AD- 759 366

LANDING CRAFT
Assault Boat Equations.
AD- 754 423

LEARNING
Learning, Retention and Transfer
in Military Training.
AD- 733 964

NAVAL PERSONNEL
OCEANOGRAPHIC AND HYDROGRAPHIC
SYSTEMS FOR TRAINING.
AD- 649 815

NAVIGATION
Design Study Report for a
Multiple Trainee Station Air
Navigation Trainer.
AD- 856 444L

OPERATIONS RESEARCH
SYSTEMS ANALYSIS OF AAW TRAINING

REQUIREMENTS.
AD- 625 378

PERFORMANCE(HUMAN)
PROCEDURES AND RESEARCH PLANNING
FOR ANTI-AIR WARFARE TRAINING
PROGRAM. SUPPLEMENT
AD- 354 390

PILOTS
Naval Pilot Training System
Study. Volume I. Basic Report.
AD- 756 638
Naval Pilot Training System
Study. Volume II. Appendices A,
B, C and D.
AD- 756 639
Naval Pilot Training System
Study. Volume III. Executive
Summary.
AD- 756 640
Adaptive Training of Manual
Control: Relation of Adaptive
Scheme Parameters to Task
Parameters.
AD- 764 901
Chart Interpretation in Low-
Altitude Flight.
AD- 766 466

RADAR OPERATORS
Evaluation of Data Compression
Techniques for Radar Landmass
Terrain Data.
AD- 750 695
Radar Landmass Simulation
Computer Programming (Interim
Report).
AD- 755 722
Simulation of a Digital Radar
Landmass Simulator.
AD- 756 219

RETENTION(PSYCHOLOGY)
Study of Long-Term Skill
Retention.
AD- 503 679

SCIENTIFIC RESEARCH
Learning Retention and Transfer.
Volume I.

SUBJECT INDEX-80
UNCLASSIFIED FQP40C

AD- 724 778

SIMULATORS
Training Effectiveness
Evaluation of Naval Training
Devices: An Evaluation of the
2F698 ASW Weapon System Trainer.
AD- 908 034

SUBMARINE PERSONNEL
STUDY OF SUBMARINE CASUALTY
CONTROL TRAINING.
AD- 486 430

SSN Tactical Team Training
System.
AD- 522 919L
Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume II.
AD- 531 491L

TRAINING AND SUPERVISION OF
CONTROLLERMEN.
AD- 656 632

Study of Training Device Needs
for Meeting Basic Officer Tactics
Training Requirements. Volume I.
AD- 728 428

A Study of the Impact of SSN688
Class Submarine Design on a
Generalized Advanced Casualty Ship
Control Training Device.
AD- 764 086

Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume I.
AD- 922 929

SYMPOSIA
Learning, Retention, and
Transfer. Volume II. Appendix B:
L, R, and T Technical Meetings
Report.
AD- 724 790

TARGET RECOGNITION
NAVY RECOGNITION TRAINING.
AD- 841 879

THEORY

NAV-NAV

UNCLASSIFIED

TRAINING ANALYSIS PROCEDURE
(TAP), VOLUME I: THEORETICAL
DEVELOPMENT,
AD- 434 818

TRAINING DEVICES
Handbook for Training Systems
Evaluation,
AD- 512 875

PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 872 587

INTEGRATED LOGISTIC SUPPORT FOR
TRAINING DEVICES,
AD- 874 430

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

Training Device Employment
Materials.
AD- 733 962

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25th Anniversary Commemorative
Technical Journal,
AD- 735 487

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Display for Ship-Handling Trainers.
AD- 753 213

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Training Device Center and Industry
Conference (1st), at Orlando,
Florida on 29 November-1 December
1968.
AD- 763 642

General Specification for
Factory Training in the Operation
and Maintenance of Training
Devices.
AD- 844 853

Development of a Method for
Deriving Required Training
Aids/Devices and Application to the
Tactical Coordinator Position in
ASW Aircraft.
AD- 872 287

A Study of Training Device
Requirements to Support Land Combat
Training. Volume I. Recruit

Training.
AD- 894 317L

A Study of Training Device
Requirements to Support Land Combat
Training. Volume II. Individual
Combat Training and Basic
Specialist Training.
AD- 894 318L

A Study of Training Device
Requirements to Support Land Combat
Training. Volume III. Officer
Tactical Training.
AD- 894 319L

TRAINING DEVICES
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

TYPEWRITERS
The Evaluation of Two Automated
Systems for Teaching Typewriting.
AD- 910 397

UNDERWATER NAVIGATION
Underwater Terrain Navigation
and Reconnaissance Simulator.
AD- 754 091

Training in the Underwater
Terrain Navigation and
Reconnaissance Trainer Simulator.
AD- 768 734

WEAPON SYSTEMS
Automated Weapon System Trainer.
AD- 872 854

WEAPONS
AUTOMATED NON-MATERIAL TARGET
SYSTEM.
AD- 884 888

*NAVAL VESSELS
ANTISUBMARINE WARFARE
SHIPBOARD SYSTEMS STUDIES.
AD- 820 545

MANEUVERABILITY
EQUATIONS OF MOTION FOR MOORING
AND DOCKING MANEUVERS OF A

SUBJECT INDEX-81
UNCLASSIFIED FQP40C

DESTROYER AND A SURFACED SUBMARINE,
AD- 847 288

PLOTTING BOARDS
SHIPBOARD SYSTEMS STUDIES; AN
EVALUATION OF TWO PROPOSED PLOTTING
SYSTEMS FOR THE CIC OF THE U.S.S.
NORTHAMPTON (CLC-1).
AD- 843 184

*NAVIGATION
COMPARISON OF THE OMNI BEARING
INDICATOR AND THE RADIO MAGNETIC
INDICATOR IN SHORT RANGE NAVIGATION
AD- 112 279

LOW ALTITUDE FLYING: AN ANALYSIS
AD- 159 829

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO HELICOPTER
LOW-ALTITUDE NAVIGATION TRAINING
AD- 235 880

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO LOW
ALTITUDE-HIGH SPEED NAVIGATION
TRAINING
AD- 235 881

Training Effectiveness
Evaluation: Device 1023,
Communication and Navigation
Trainer.
AD- 776 619

DISPLAY SYSTEMS
A STUDY OF THE MOVING FIGURE AND
ORIENTATION OF SYMBOLS ON PICTORIAL
AIRCRAFT INSTRUMENT DISPLAYS FOR
NAVIGATION.
AD- 857 470

NAVAL TRAINING
Design Study Report for a
Multiple Trainee Station Air
Navigation Trainer.
AD- 858 444L

*NAVIGATION CHARTS
PROPOSED SPECIFICATIONS FOR
HELICOPTER PILOTAGE MAP
AD- 115 482

AIRCRAFT

NAV-NAV

UNCLASSIFIED

A STUDY OF THE MOVING PART,
HEADING PRESENTATION, AND MAP
DETAIL ON PICTORIAL AIR NAVIGATION
DISPLAYS.
AD- 637 538

*NAVIGATIONAL AIDS
DISPLAY SYSTEMS
A STUDY OF THE MOVING PART,
HEADING PRESENTATION, AND MAP
DETAIL ON PICTORIAL AIR NAVIGATION
DISPLAYS.
AD- 637 538

*NEUROMUSCULAR TRANSMISSION
TIME
PREDICTION OF SPEED OF
PERFORMANCE BY MUSCLE ACTION
POTENTIALS.
AD- 629 759

*NIGHT LANDINGS
Transfer of Training
Effectiveness: A7E Night Carrier
Landing Trainer (NCLT) Device
2F103.
AD-A028 836

*NOISE
Speech Intelligibility to Motor
Activity in the Presence of High
level Noise.
AD- 045 502

HEARING
THE RELATION BETWEEN DURATION OF
EXPOSURE TO HIGH LEVEL NOISE AND
LISTENER ACCURACY.
AD- 639 103

PERFORMANCE(HUMAN)
THE EFFECT OF VARIOUS NOISE
LEVELS ON PERFORMANCE OF THREE
MENTAL TASKS.
AD- 639 089

SIMULATORS
FUELS FOR SMALL ARMS NOISE
SIMULATORS. DEVICE 3C85D.
AD- 630 278

STRESS(PSYCHOLOGY)
A STUDY OF THE EFFECTS OF STRESS
ON SPEAKING AND LISTENING
ABILITIES.
AD- 639 107

*NUCLEAR ENERGY
ENERGY CONVERSION SYSTEMS
REFERENCE HANDBOOK. VOLUME X-
REACTOR SYSTEM DESIGN
AD- 256 884

*NUCLEAR POWER PLANTS
ENERGY CONVERSION SYSTEMS
REFERENCE HANDBOOK. VOLUME X-
REACTOR SYSTEM DESIGN
AD- 256 884

*NUMBERS
APPROXIMATION(MATHEMATICS)
ACCURACY OF VISUAL INTERPOLATION
BETWEEN SCALE MARKERS AS A FUNCTION
OF THE NUMBER ASSIGNED TO THE SCALE
INTERVAL.
AD- 640 094

COUNTING METHODS
THE EFFECT OF A SIMPLE TRAINING
PROCEDURE ON THE JUDGMENT OF VISUAL
NUMBER.
AD- 639 142
THE SUBITIZING AND COUNTING OF
VISUALLY PRESENTED FIELDS OF DOTS.
AD- 639 360

DISPLAY SYSTEMS
LEGIBILITY OF NUMERALS: THE
OPTIMAL RATIO OF HEIGHT TO WIDTH OF
STROKE,
AD- 640 093

VISIBILITY
THE DESIGN OF NUMERALS FOR USE
IN COUNTER-TYPE INSTRUMENTS: A
REVIEW OF THE LITERATURE.
AD- 639 365

VISUAL PERCEPTION
THE EFFECT OF DIFFERENTIAL
REINFORCEMENT ON THE DISCRIMINATION
OF VISUAL NUMBER.

SUBJECT INDEX-62
UNCLASSIFIED FQP40C

AD- 657 402

*OCEAN CURRENTS
SIMULATORS
MODEL OCEAN WAVE AND CURRENT
GENERATOR.
AD- 824 425

*OCEAN MODELS
TRAINING DEVICES
MODEL OCEAN WAVE AND CURRENT
GENERATOR.
AD- 824 425

*OCEAN WAVES
SHALLOW WATER
A MATHEMATICAL MODEL FOR ASSAULT
BOAT MOTION IN WAVES.
AD- 712 773
DEVELOPMENT OF EQUATIONS FOR
SIMULATING ASSAULT BOAT MOTION.
AD- 712 774

SIMULATORS
MODEL OCEAN WAVE AND CURRENT
GENERATOR.
AD- 824 425

*OCEANOGRAPHY
HYDROGRAPHIC SURVEYING
OCEANOGRAPHIC AND HYDROGRAPHIC
SYSTEMS FOR TRAINING.
AD- 649 815

THERMOCLINES
OCEANOGRAPHIC THERMAL GRADIENT
DISPLAY STUDY.
AD- 669 488

*OFFICER PERSONNEL
STUDY OF THE PRESENT STATUS OF
TRAINING AIDS AND DEVICES IN THE
ARMY TRANSPORTATION COMPANY
OFFICERS COURSE
AD- 113 128
Basic and Advanced Submarine
Officer's Tactical Training Device
Requirements.
AD- 780 778
A Field Test of the PLATO IV
System for Company Commander

NAV-OFF

UNCLASSIFIED

Behavioral Change Training.
AD-A027 701
Officer Candidate School
Curriculum Optimization.
AD-A041 486
Navy Training Command Naval
Flight Officer Training Situation
Analysis.
AD-A058 392
F-4J/N Instructional System
Development: Phase I.
AD-A061 088
Selection, Training, and
Utilization of Navy Recruit
Training Command Officers.
AD-A086 403
Landing Signal Officer (LSO)
Laboratory System Software.
AD-A095 730
A Structured Interview
Methodology for Collecting Training
Feedback Information.
AD-A097 871
An Assessment of Leadership
Training Requirements for Navy
Recruit Training Division Officers.
AD-A100 278

ANTISUBMARINE WARFARE
Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume I.
AD- 922 929

NAVAL TRAINING
Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume II.
AD- 531 491L
Study of Training Device Needs
for Meeting Basic Officer Tactics
Training Requirements. Volume I.
AD- 726 428

*OPERATIONAL READINESS
Aircraft Maintenance
Effectiveness Simulation (AMES)
model.
AD-A087 518

*OPERATIONS RESEARCH
THE VALIDITY OF PREDICTION FROM
LABORATORY EXPERIMENTS TO NAVAL
OPERATIONAL SITUATIONS IN THE AREA
OF HUMAN ENGINEERING AND SYSTEMS
RESEARCH
AD- 143 285

*OPERATORS (PERSONNEL)
GROUND EFFECT MACHINES
PRELIMINARY INVESTIGATION OF
TRAINING REQUIREMENTS FOR AIR
CUSHION VEHICLE (ACV) OPERATORS.
AD- 609 384

*OPERATORS(PERSONNEL)
Development of the Navy
Consolidated Electronic Warfare
Operator Curriculum. Focus on the
Trained Man.
AD-A057 011
Computer-Aided Authoring System
(AUTHOR) User's Guide. Volume I.
AD-A059 572
Analysis of Requirements and
Methodology for Decision Training
in Operational Systems.
AD-A060 028

MILITARY TRAINING
TRAINING SITUATION ANALYSIS
REPORT FOR THE MARINE TACTICAL DATA
SYSTEM.
AD- 378 639
Design Study Report for Trainee
Sensory Inputs Device X11H28.
AD- 858 984

MOTOR REACTIONS
AROUSAL AS A FACTOR IN
REMINDANCE.
AD- 851 854

*OPHTHALMOLOGY
LASERS
Vision Tests Using Laser
Speckle.
AD- 742 792

*OPTICAL COATINGS
Proceedings of the Naval

Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226

REFLECTION
Antireflection Thin Films on
Transparent Media.
AD- 736 809

*OPTICAL EQUIPMENT
Optical Relationships for Visual
Simulation Systems.
AD- 781 887

FIRE CONTROL SYSTEMS
Photo-Optical Design, Observed
Fire Trainer.
AD- 759 702

RESOLUTION
RESOLUTION CRITERIA FOR OPTICAL
AND PHOTOGRAPHIC SYSTEMS.
AD- 860 880

*OPTICAL IMAGES
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
Optical Relationships for Visual
Simulation Systems.
AD- 781 887
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 383

EFFECTIVENESS
Relative Effectiveness of Two
and Three Dimensional Image Storage
Media.
AD- 754 743

SYNTHESIS
A STUDY OF 3-D EFFECTS IN VISUAL
SIMULATION. PHASE I.
AD- 835 889

*OPTICAL LENSES

SUBJECT INDEX-83
UNCLASSIFIED FQP40C

OPE-OPT

UNCLASSIFIED

Evaluation of a Dual Axis
Holographic Lens.
AD-A002 253
Design Study of an Optical
System for Panoramic Imagery.
AD-A026 281

*OPTICAL SCANNING
LASERS
LASERS FOR TRAINING DEVICES.
AD- 479 782

PIEZOELECTRIC TRANSDUCERS
LASER DEFLECTION BY A
TORSIONALLY RESONANT HORN LOADED
PIEZOELECTRIC CERAMIC.
AD- 816 660

*OPTICAL SIGHTS
FIBER OPTICS
FIBER OPTICS REMOTE SIGHT FOR
ASSESSMENT OF GUNNER PERFORMANCE.
AD- 671 073

*OPTICAL TRACKING
TRAINING DEVICES
REPORT OF RECOMMENDATIONS FOR
THE MARK 18 COORDINATION TRAINER
DEVICE 3-A-40.
AD- 639 037

*OPTICAL EQUIPMENT
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*OXYGEN
REGENERATION
INTERNAL ENVIRONMENTAL SIMULATOR
FOR A MANMACHINE SYSTEM.
AD- 431 026

*OXYGEN EQUIPMENT
INSTRUMENT DIALS
LEGIBILITY OF AIRCRAFT
INSTRUMENT DIALS: OXYGEN DURATION
METER.
AD- 838 888

*OZONE

AVIATION MEDICINE
HUMAN PROBLEMS IN THE OPERATION
OF HIGH SPEED AIRCRAFT. I.
ATMOSPHERIC OZONE.
AD- 839 027

*PANORAMIC EQUIPMENT
Nonprogrammed Multiple Channel
Panoramic CCTV System.
AD-A050 314

*PANORAMIC SCANNERS
Design Study of an Optical
System for Annular Imagery.
AD- 777 434
Design Study of an Optical
System for Panoramic Imagery.
AD-A026 281

PHOTOGRAPHIC PROJECTORS
Design Study of an Optical
System for Annular Imagery.
AD- 758 637

*PASSENGER VEHICLES
TRACKED VEHICLES
HUMAN FACTORS IN THE DESIGN OF A
UNIFORM CONTROL FEEL-AIRPLANE
RESPONSE SYSTEM
AD- 042 391

*PASSIVE SONAR
Analysis of Acoustic
Synthesizers for Passive Sonar
Simulation.
AD-A030 706

*PATROL AIRCRAFT
HUMAN FACTORS ENGINEERING
HUMAN FACTORS IN THE DESIGN AND
OPERATION OF AN ANTI-SUBMARINE
AIRPLANE: PHASE III. HUMAN
ENGINEERING RECOMMENDATIONS
AD- 042 774
HUMAN FACTORS IN THE DESIGN AND
OPERATION OF AN ANTI-SUBMARINE
AIRPLANE: PHASE I. SYSTEM ANALYSIS
AD- 042 775

JOB ANALYSIS
Task Analysis OF Pilot, Copilot,
SUBJECT INDEX-84
UNCLASSIFIED FQP40C

and Flight Engineer Positions for
the P-3 Aircraft.
AD- 786 445

*PATROL CRAFT
DEFENSE SYSTEMS
SHIPBOARD SYSTEMS STUDIES.
ARRANGEMENT OF EQUIPMENT IN THE CIC
OF THE DER.
AD- 843 156

*PERCEPTION
RELATIVE MOTION II: THE NATURE
OF RELATIVE MOTION SITUATIONS
AD- 238 775
TRAINING ASPECTS OF DECISION
MAKING
AD- 259 187
EFFECTS OF PROGRAMMED PERCEPTUAL
TRAINING ON THE LEARNING OF CONTACT
LANDING SKILLS
AD- 264 377
PERCEPTION OF DISTORTION. I. AN
EXPERIMENTAL APPROACH TO ILLUSION
AD- 292 120

ACCURACY
ACCURACY OF TACTUAL
DISCRIMINATION OF LETTERS,
NUMERALS, AND GEOMETRIC FORMS.
AD- 657 476

BRIGHTNESS
PERCEIVED BRIGHTNESS OF LIGHT
FLASHES.
AD- 609 358

SOUND
SOME EFFECTS OF INTERAURAL PHASE
DIFFERENCES ON THE PERCEPTION OF
PURE TONES.
AD- 657 528

TACHISTOSCOPES
THE EFFECTS OF INDUCED MUSCLE
TENSION AND AUDITORY STIMULATION ON
TACHISTOSCOPIC PERCEPTION.
AD- 831 840

TRAINING FILMS
Comparison of the Audio and

OPT-PER

UNCLASSIFIED

Video Elements of Instructional
Films (Rapid Mass Learning).
AD- 784 042

*PERCEPTION (PSYCHOLOGY)
STRESS (PSYCHOLOGY)
PERCEPTION AND SHORT TERM MEMORY
UNDER WORK LOAD STRESS.
AD- 804 866

TRAINING
RESPONSE AND FEEDBACK TECHNIQUES
FOR AUTOMATED TRAINING OF VISUAL
IDENTIFICATION SKILLS.
AD- 447 882

VISUAL SIGNALS
PERCEPTION OF DISTORTION: AN
EXPERIMENTAL STUDY OF DISTANCE AND
PERSPECTIVE IN THE AMES TRAPEZOID
ILLUSION.
AD- 607 740

*PERCEPTION(PSYCHOLOGY)
PERFORMANCE(HUMAN)
STUDIES OF MANUAL ROTARY
POSITIONING MOVEMENTS: II. THE
ACCURACY OF ESTIMATING THE POSITION
OF AN INDICATOR KNOB,
AD- 640 099

*PERFORMANCE(HUMAN)
Trainee Performance Measurement
Development Using Multivariate
Measure Selection Techniques.
AD- 787 594
Transfer of Training
Effectiveness: A7E Night Carrier
Landing Trainer (NCLT) Device
2F103.
AD-A028 836
Applications of Advanced
Experimental Methodologies to AWACS
Training Research.
AD-A084 332
Performance Measurement and the
Navy's Tactical Aircrew Training
System (TACTS).
AD-A110 669
An Annotated Bibliography of
Objective Pilot Performance

Measures.
AD-A113 170

(*HUMAN ENGINEERING
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

ELECTROPHYSIOLOGY
APPLICATION OF ELECTRO-
PHYSIOLOGICAL TECHNIQUES TO HUMAN
PERFORMANCE: THE READING ASSESSOR -
THE ALERTNESS INDICATOR.
AD- 839 045

ERRORS
ACCURACY OF ORAL TRANSMISSION OF
TARGET INFORMATION.
AD- 639 380
STUDIES IN THE ACCURACY OF
MOVEMENT. I. THE BISECTION AND
DUPLICATION OF LINEAR EXTENS IN THE
HORIZONTAL SAGITTAL PLANE.
AD- 840 040
STUDIES IN THE ACCURACY OF
MOVEMENT. III. THE BISECTION AND
DUPLICATION OF ANGULAR EXTENTS AS A
FUNCTION OF SIZE OF ANGLE AND OF
TYPE OF END POINT CUE.
AD- 840 041

FLIGHT
EVALUATION OF THE SCHOOL LINK AS
AN AID IN TEACHING GROUND REFERENCE
MANEUVERS.
AD- 857 473

FLIGHT SIMULATORS
THE MANEUVERING TACTICS TRAINER.
AD- 846 774

HEAT
THE EFFECT OF HEAT UPON THE
PERFORMANCE OF MEN IN HIGH SPEED
AIRCRAFT: A CRITICAL REVIEW,
AD- 857 482

INTERFERENCE
FACILITATION AND INTERFERENCE IN
PERFORMANCE ON THE MODIFIED

SUBJECT INDEX-65
UNCLASSIFIED FQP40C

MASHBURN APPARATUS: II. THE
EFFECTS OF VARYING THE AMOUNT OF
INTERPOLATED LEARNING.

AD- 843 407
PRIOR LEARNING AS A FACTOR IN
SHAPING PERFORMANCE CURVES.
AD- 843 409
A STUDY OF WARMUP DECREMENT IN
PURSUIT ROTOR PERFORMANCE.
AD- 843 410
SINGLE-TRIAL-PER-TASK VERSUS
MULTIPLE-TRIALS-PER-TASK IN THE
ACQUISITION OF SKILL IN PERFORMING
SEVERAL SIMILAR TASKS.
AD- 843 412
AN INVESTIGATION OF INDIVIDUAL
SUSCEPTIBILITY TO INTERFERENCE.
AD- 843 414
FURTHER ATTEMPTS TO DEMONSTRATE
INTERFERENCE IN THE PERFORMANCE OF
ROTARY PURSUIT TASKS.
AD- 843 656

LEARNING
THE EFFECTS OF LEVEL OF LEARNING
AND OF OVERLEARNING ON PROACTIVE
AND RETROACTIVE FACILITATION AND
INTERFERENCE.
AD- 843 413

MEASUREMENT
Measurement of Trainee
Performance in a Captive Rotary
Wing Device.
AD- 784 088

NOISE
THE EFFECT OF VARIOUS NOISE
LEVELS ON PERFORMANCE OF THREE
MENTAL TASKS.
AD- 839 089

PLAN POSITION INDICATOR.
ACCURACY OF ALIGNING THE MOVABLE
RANGE MARKER WITH BLIPS ON THE PLAN
POSITION INDICATOR.
AD- 839 286

PSYCHOLOGICAL TESTS
AN INTEGRATED APPROACH TO THE
STUDY OF LEARNING, RETENTION, AND

PER-PER

UNCLASSIFIED

TRANSFER. A KEY ISSUE IN TRAINING
DEVICE RESEARCH AND DEVELOPMENT.
AD- 712 096

ROTATION
FACTORS INFLUENCING ROTARY
PERFORMANCE.
AD- 639 393

WEAPON SYSTEMS
TASK ANALYSIS METHODS COMPARED
FOR APPLICATION TO TRAINING
EQUIPMENT DEVELOPMENT.
AD- 475 879

*PERFORMANCE(HUMAN))
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

*PERISCOPES
INSTRUMENT FLIGHT
FLIGHT BY PERISCOPE.
AD- 639 032

*PERSONALITY
CRITIQUES AND NOTES -
PERSONALITY TRAITS AND SPEAKING
INTELLIGIBILITY
AD- 045 389
RELATIONSHIPS BETWEEN CERTAIN
ASPECTS OF PERSONALITY AND SOME
VOCAL EFFECTS OF DELAYED SPEECH
FEEDBACK.
AD- 221 573

SPEECH
VOICE COMMUNICATION: EFFECT OF
STRESS ON TALKERS, A PERSONALITY
STUDY.
AD- 656 631

*PERSONALITY TESTS
EVALUATION OF MOTION PICTURES TO
SIMULATE REALITY IN THE THEMATIC
APPERCEPTION TEST
AD- 081 026

*PERSONNEL DEVELOPMENT

Description and Initial
Evaluation of a Computer-Based
Individual Trainer for the Radar
Intercept Observer.
AD- 771 415

*PHOSPHORESCENCE
VISIBILITY
VISIBILITY ON CATHODE-RAY TUBE
SCREENS: SIGNALS ON A P7 SCREEN
SEEN AT DIFFERENT INTERVALS AFTER
EXCITATION,
AD- 657 515
VISIBILITY ON CATHODE-RAY TUBE
SCREENS. SCREEN BRIGHTNESS,
AD- 657 520

*PHOTOGRAPHIC ANALYSIS
OPTICAL SCANNING
STUDY, MTMS, STEREO INPUT.
AD- 430 702

*PHOTOGRAPHIC IMAGES
The Effect of Nonuniform Laser
Illumination on Photographic
Density Levels,
AD-A021 889

*PHOTOGRAPHIC INTELLIGENCE
SHORT DESCRIPTION OF THE
VERTICAL INDICATING SYSTEMS
AD- 036 713

*PHOTOGRAPHIC PLATES
EXPOSURE(PHYSIOLOGY)
An Investigation of Holographic
Parameters.
AD- 872 988

*PHOTOGRAPHIC PROJECTORS
Design Study of an Optical
System for Annular Imagery.
AD- 777 434
Design Study of an Optical
System for Panoramic Imagery.
AD-A026 281
Evaluation of the Dukane
Cassette/Filmstrip Projection
System Model 28A28A.
AD-B015 707

TELEVISION DISPLAY SYSTEMS
WIDE ANGLE TELEVISION
PROJECTION. VOLUME I. (BASIC AND
APPENDICES A, B, AND C).
AD- 673 444

WIDE ANGLE TELEVISION
PROJECTION. VOLUME II.
(APPENDICES D, E, F, G, AND H).
AD- 673 445
APPLICATION OF
ELECTROPHOTOGRAPHY TO TELEVISION
PROJECTION.
AD- 673 536

*PHOTOGRAPHIC RECORDING SYSTEMS
SONAR SIGNALS
Electro-Optical Multichannel
Sonar Recorder/Reproducer. Phase
II.
AD- 743 091

*PHOTOGRAPHY
LASERS
SIMPLIFICATION OF HOLOGRAPHIC
PROCEDURES,
AD- 658 522

RESOLUTION
RESOLUTION CRITERIA FOR OPTICAL
AND PHOTOGRAPHIC SYSTEMS.
AD- 660 880

*PHOTOMETERS
RECORDING SYSTEMS
A RECORDING PHOTOMETER AND ITS
USE IN STUDIES OF CATHODE RAY
SCREEN DISPLAYS.
AD- 639 280

*PHOTOSENSITIVITY(BIOLOGICAL)
EYE
THRESHOLDS OF THE HUMAN EYE FOR
ELECTRIC STIMULATION BY DIFFERENT
WAVE FORMS,
AD- 659 890
PUPIL SIZE AS DETERMINED BY
ADAPTING LUMINANCE,
AD- 659 891

*PHYSIOLOGY
ELECTRONIC RECORDING SYSTEMS

SUBJECT INDEX-66
UNCLASSIFIED FQP40C

PER-PHY

UNCLASSIFIED

COLLECTION AND ANALYSIS
PROCEDURES FOR PHYSIOLOGICAL DATA:
METHODOLOGY AND APPARATUS.

AD- 619 284

*PICTURES

THE VALIDITY OF PICTORIAL TESTS
AND THEIR INTERACTION WITH AUDIO-
VISUAL TEACHING METHODS

AD- 096 928

*PIEZOELECTRIC TRANSDUCERS

OPTICAL SCANNING

LASER DEFLECTION BY A
TORSIONALLY RESONANT HORN LOADED
PIEZOELECTRIC CERAMIC.

AD- 818 660

UNDERWATER EQUIPMENT

High Fidelity, Low Frequency
Underwater Transducer Study.

AD- 394 449L

*PILOTS

PERFORMANCE ON A TRACKING TASK
SIMULATING FIXED GUNNERY AS A
FUNCTION OF INSTRUCTIONS AND
DIFFICULTY LEVEL OF INITIAL
TRAINING

AD- 113 744

HUMAN ENGINEERING CONSIDERATIONS
IN THE DESIGN OF THE INSTRUCTOR'S
STATION OF TRAILERIZED OPERATIONAL
FLIGHT TRAINERS

AD- 118 027

PILOT PERFORMANCE IN INSTRUMENT
FLIGHT AS A FUNCTION OF THE EXTENT
AND DISTRIBUTION OF VISIBLE HORIZON

AD- 138 800

TRANSFER OF TRAINING IN FLIGHT
PROCEDURES FROM SELECTED GROUND
TRAINING DEVICES TO THE AIRCRAFT

AD- 149 547

A TRAINING ANALYSIS OF THE
PILOT'S TASK IN TRANSITIONING TO
JET VTOL AIRCRAFT

AD- 231 477

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE ATTACK TRAINING

AD- 235 074

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO HELICOPTER
LOW-ALTITUDE NAVIGATION TRAINING

AD- 235 880

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO LOW
ALTITUDE-HIGH SPEED NAVIGATION
TRAINING

AD- 235 881

EVALUATION OF EXPERIMENTAL POINT
SOURCES AND TRANSPARENCIES FOR
HELICOPTER HOVERING FLIGHT
SIMULATION DEVICE 2FH2

AD- 235 883

IMPROVEMENT OF FLIGHT HANDBOOKS

AD- 268 704

Training Analysis of P-3
Replacement Pilot Training.

AD- 777 428

An Experimental Investigation of
the Role of Motion in Ground-Based
Trainers.

AD- 778 665

Adaptive Training of Manual
Control: Performance Measurement
Intervals and Task Characteristics.

AD-A019 233

Transfer of Training
Effectiveness: A7E Night Carrier
Landing Trainer (NCLT) Device
2F103.

AD-A028 836

Utilization of Device 2F87F Off
to Achieve Flight Hour Reductions
In P-3 Fleet Replacement Pilot
Training.

AD-A053 850

F-4J/N Instructional System
Development: Phase I.

AD-A061 098

Operational Performance of P-3
Pilots as a Function of Variations
in Fleet Readiness Training.

AD-A086 883

Computer Aided Training
Evaluation and Scheduling (CATES)
system: Assessing Flight Task
Proficiency.

AD-A095 007

The Effects of Various Fidelity
Factors on Simulated Helicopter

Hover.

AD-A102 028

Development of the Automated
Performance Assessment and Remedial
Training System (APARTS): A Landing
Signal Officer Training Aid.

AD-A108 224

Preparation and Design for a
Training Effectiveness Evaluation
of Device 2F84C for Replacement
Pilot Training.

AD-A108 939

Reports by Systems Technology,
Inc., in Support of Carrier-Landing
Research in the Visual Technology
Research Simulator.

AD-A112 466

An Annotated Bibliography of
Objective Pilot Performance
Measures.

AD-A113 170

AVIATION MEDICINE

HUMAN PROBLEMS IN THE OPERATION
OF HIGH SPEED AIRCRAFT. I.
ATMOSPHERIC OZONE.

AD- 839 027

EFFECTIVE

THE NATURAL PILOT MODEL FOR
FLIGHT PROFICIENCY EVALUATION.

AD- 410 805

FLIGHT SIMULATORS

PSYCHOLOGICAL STUDIES OF
ADVANCED NAVAL AIR TRAINING:
EVALUATION OF OPERATIONAL FLIGHT
TRAINERS.

AD- 643 499

PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION:
I. VARIATIONS IN PROGRAM CYCLE
TIME AND AERODYNAMIC ECATIONS.

AD- 648 023

A Survey of Selected Visual
Simulation Systems.

AD- 907 481L

HANDBOOKS

Military Specification for
Preparation of NATOPS Flight

SUBJECT INDEX-87
UNCLASSIFIED FQP40C

PIC-PIL

UNCLASSIFIED

Manuals.
AD- 857 295

NAVAL TRAINING

PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION:
III. PERFORMANCE OF NON-JET
EXPERIENCED PILOTS VERSUS
SIMULATION FIDELITY.

AD- 675 825

Naval Pilot Training System
Study. Volume I. Basic Report.

AD- 756 638

Naval Pilot Training System
Study. Volume II. Appendices A,
B, C and D.

AD- 756 639

Naval Pilot Training System
Study. Volume III. Executive
Summary.

AD- 756 640

Adaptive Training of Manual
Control: Relation of Adaptive
Scheme Parameters to Task
Parameters.

AD- 764 901

Chart Interpretation in Low-
Altitude Flight.

AD- 766 466

The Use of Wide-Angle Cinematic
Simulators in Pilot Training.

AD- 766 507

PERFORMANCE(HUMAN)

EXPERIMENTAL STUDY OF THE
NATURAL PILOT FLIGHT PROFICIENCY
EVALUATION MODEL.

AD- 414 666

AN ANALYSIS OF PILOTS'
PERFORMANCES IN MULTIENGINE
AIRCRAFT (R5D).

AD- 639 026

THE EFFECTS OF ELIMINATING
BINOCULAR AND PERIPHERAL MONOCULAR
VISUAL CUES UPON AIRPLANE PILOT
PERFORMANCE IN LANDING.

AD- 639 031

Study of Crew Performance
Measurement for High-Performance
Aircraft Weapon System Training:
Air-to-Air Intercept.

AD- 727 739

Design Factors in Environmental
Simulation.

AD- 880 048

Motion Factors in Flight
Simulation.

AD- 880 341

PSYCHOLOGICAL TESTS

STUDY, ASSESSMENT OF PILOT
PROFICIENCY.

AD- 637 659

SELECTION

THE SPECIAL DEVICES USED IN THE
PENSACOLA PILOT CANDIDATE SELECTION
RESEARCH PROGRAM.

AD- 639 055

TARGET ACQUISITION

Investigation of Required
Television Parameters for
Simulation of the Pilot's Visual
World.

AD- 864 382

TRAINING

An Investigation of Visual,
Aural, Motion and Control Movement
Cues.

AD- 726 430

TRAINING DEVICES

USE OF THE OPERATIONAL FLIGHT
TRAINER.

AD- 643 498

TRANSFER OF TRAINING

AN EXPERIMENTAL PROGRAM FOR
RELATING TRANSFER OF TRAINING TO
PILOT PERFORMANCE AND DEGREE OF
SIMULATION.

AD- 471 806

PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION.
II. VARIATIONS IN AERODYNAMIC
COEFFICIENTS.

AD- 655 837

VISUAL ACUITY

DETECTION IN A HOMOGENOUS VISUAL

FIELD UNDER A CONDITION OF INFINITE
DEPTH OF FOCUS,
AD- 624 531

VISUAL PERCEPTION

EMPTY VISUAL FIELD STUDIES:
SOME EFFECTS OF CORRECTIVE LENSES,
FILTERS, AND STRUCTURE,

AD- 445 863

JAMES J. GIBSON ON VISUAL
PERCEPTION: ANALYSIS OF SELECTED
PAPERS.

AD- 602 283

*PITCH DISCRIMINATION
ANALYSIS OF VARIANCE

The Role of Repetition Rate and
Interstimulus Interval in Context
Effects.

AD- 764 030

PSYCHOACOUSTICS

PITCH AND INTENSITY.

AD- 662 691

THRESHOLDS(PHYSIOLOGY)

PITCH CHARACTERISTICS OF SHORT
TONES. I. TWO KINDS OF PITCH
THRESHOLD.

AD- 639 681

TRAINING

PRACTICE EFFECTS, KNOWLEDGE OF
RESULTS AND TRANSFER IN PITCH
DISCRIMINATION.

AD- 634 221

*PLAN POSITION INDICATORS

TARGET INDICATION FROM THE PPI
OF THE SG-1B (MOD 50) RADAR

AD- 082 804

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Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.

AD- 737 228

CATHODE RAY TUBES

THE EFFECT OF CRT BIAS ON
VISIBILITY OF TARGETS ON A REMOTE
PPI.

SUBJECT INDEX-88
UNCLASSIFIED FQP40C

PIT-PLA

UNCLASSIFIED

AD- 639 371

COUNTING METHODS

THE RELATIVE EFFICIENCY OF A BEARING COUNTER AND BEARING DIAL FOR USE WITH PPI PRESENTATIONS.

AD- 639 384

EFFECTIVENESS

SOME PERCEPTUAL PROBLEMS IN THE USE OF THE VG REMOTE PPI.

AD- 639 388

ERRORS

A STUDY OF ALIGNMENT ERRORS BETWEEN THE BEARING CURSOR AND ANTENNA TRACE ON THE PPI OF THE SG-18 (MOD. 50) RADAR.

AD- 639 394

HUMAN FACTORS ENGINEERING

APPRAISAL OF AN EXPERIMENTAL PLAN POSITION INDICATOR PRESENTING SIMULATED BEARING, RANGE, AND HEIGHT INFORMATION.

AD- 639 387

GEAR-RATIOS FOR CURSORS OF PPI'S.

AD- 640 079

MOUNTING ANGLE OF A VJ REMOTE RADAR INDICATOR AND ITS EFFECT ON OPERATOR PERFORMANCE.

AD- 648 273

OPERATION

A STUDY OF FACTORS AFFECTING OPERATION OF THE VG REMOTE PPI.

AD- 657 477

PERFORMANCE(HUMAN)

ACCURACY OF ALIGNING THE MOVABLE RANGE MARKER WITH BLIPS ON THE PLAN POSITION INDICATOR.

AD- 639 288

RADAR SCANNING

NUMBER OF PIP-SCANS AND TARGET-DETECTABILITY ON CERTAIN HIGH PERSISTENCE PPI TUBES.

AD- 639 374

RADAR SIGNALS

SIGNAL MARK SIZE AND VISIBILITY OF RADAR SIGNALS ON A PLAN POSITION INDICATOR.

AD- 639 387

RANGE FINDING

THE ACCURACY OF RANGE ESTIMATION ON A PPI WITH RESPECT TO THE DISTANCE OF THE TARGET FROM RANGE RINGS.

AD- 639 385

*PLOTTERS

AN ENGINEERING STUDY OF A TYPE OF DATA PICK-OFF AND DISPLAY SYSTEM FOR AIRBORNE CIC

AD- 080 477

SHIPBOARD

SHIPBOARD SYSTEMS STUDIES AN EVALUATION OF GRID-POLAR CONVERSION PLOTTING METHODS.

AD- 384 098

*PLOTTING BOARDS

BRIGHTNESS OF GREASE PENCIL MARKS ON A VERTICAL PLOTTING BOARD.

AD- 639 381

DESIGN

APPRAISAL OF DEVELOPMENT MODELS OF SIXTY-INCH VERTICAL PLOTTING BOARDS.

AD- 640 078

RADAR NAVIGATION

SHIPBOARD SYSTEMS STUDIES; AN EVALUATION OF TWO PROPOSED PLOTTING SYSTEMS FOR THE CIC OF THE U.S.S. NORTHAMPTON (CLC-1).

AD- 643 184

*POINT DETONATING FUZES

ENGINEERING AND MANUFACTURING PROGRESS REPORT (POINT-DETONATING FUZES)

AD- 057 216

*POLYETHYLENE PLASTICS

TARGETS

Polyethylene Silhouette Target Utilization (Device 3H23 E-Type).

AD- 736 197

*POSITION FINDING ERRORS

CALCULATION OF BEARING AND RANGE ERRORS DUE TO DELAYS IN TRANSMISSION OF RADAR INFORMATION.

AD- 639 296

*POSITIONING REACTIONS PERFORMANCE(HUMAN)

THE ACCURACY OF POSITIONING REACTIONS AS A FUNCTION OF DIRECTION AND EXTENT.

AD- 639 281

DISCRETE MOVEMENTS IN THE HORIZONTAL PLANE AS A FUNCTION OF THEIR LENGTH AND DIRECTION.

AD- 639 282

POSITIONING REACTIONS OF UNIFORM LENGTH EXECUTED AT VARIOUS DISTANCES FROM THE BODY.

AD- 639 284

CHARACTERISTICS OF DISCRETE MOVEMENTS IN THE HORIZONTAL PLANE WHEN EXECUTED WITH ONE AND WITH TWO HANDS.

AD- 639 285

DISCRETE MOVEMENTS TOWARD AND AWAY FROM THE BODY IN THE HORIZONTAL PLANE.

AD- 639 291

RADAR OPERATORS

MAXIMUM LIMITS OF WORKING AREAS ON VERTICAL SURFACES.

AD- 639 369

*POWER SUPPLIES

ENERGY CONVERSION SYSTEMS REFERENCE HANDBOOK. VOLUME X-REACTOR SYSTEM DESIGN

AD- 258 884

*PRECISION BOMBING

FIRING ERROR INDICATORS DEVICE X3857 FEASIBILITY DEMONSTRATION REPORT.

SUBJECT INDEX-69
UNCLASSIFIED FQP40C

PLO-PRE

UNCLASSIFIED

AD- 676 313

*PRINTING

An Automated Publishing System
for the Naval Education and
Training Command.
AD-A047 848

*PROBLEM SOLVING

Decision Making and Training: A
Review of Theoretical and Empirical
Studies of Decision Making and
Their Implications for the Training
of Decision Makers.
AD-A014 490

Front-End Analysis: Generic and
Nongeneric Models.
AD-A095 106

*PROGRAMMED INSTRUCTION

Military Instructor Training in
Transition.
AD-A013 330

An Evaluation of Microfiche
Reader Types for Use with
Programmed Instruction.
AD-A029 714

CONTROL

Learner Control of Automated
Instruction.
AD- 728 429

FLIGHT SIMULATORS

Automated Weapon System Trainer.
AD- 872 854

MEMORY (PSYCHOLOGY)

MEMORY FACTORS IN COMPUTER-
CONTROLLED MAINTENANCE TRAINING.
AD- 897 980

*PROGRAMMING (COMPUTERS)

AUTOMATED TEACHING: A REVIEW OF
THEORY AND RESEARCH
AD- 241 283

EFFECTS OF PROGRAMMED PERCEPTUAL
TRAINING ON THE LEARNING OF CONTACT
LANDING SKILLS
AD- 264 377

SIMULATION

SIMULATION SYSTEM PROGRAMMING
DESIGN MANUAL.
AD- 439 418

*PROGRAMMING LANGUAGES

Preliminary Specification of
Real-Time PASCAL.
AD-A031 451

DESIGN

Development of Behavioral
Science Programming Language.
AD- 728 432

*PROJECTILE FUZES

ENGINEERING AND MANUFACTURING
PROGRESS REPORT (POINT-DETONATING
FUZES)
AD- 057 216

*PROJECTILES

ELECTROSTATICS
AN EXPLORATORY INVESTIGATION
INTO THE POLARITY STABILITY OF THE
ELECTROSTATIC CHARGE ON AN IN-
FLIGHT PROJECTILE.
AD- 828 189

GELATINS

Ballistic Tests of Device X3F67A
(A Propeller of Liquid-Filled
Gelatin Balls).
AD- 860 957L

*PROJECTORS (ORDNANCE)

TRAINING DEVICES
Ballistic Tests of Device X3F67A
(A Propeller of Liquid-Filled
Gelatin Balls).
AD- 860 957L

*PROPRIOCEPTION

FLIGHT SIMULATORS
KINETIC CUEING IN SIMULATED
CARRIER APPROACHES.
AD- 817 889

PERFORMANCE (HUMAN)

STUDIES OF MANUAL ROTARY
POSITIONING MOVEMENTS: I. THE

PRECISION OF SETTING AN INCICATOR
KNOB TO VARIOUS ANGULAR POSITIONS.
AD- 839 864

PILOTS

KINETIC CUEING IN SIMULATED
CARRIER APPROACHES. SUPPLEMENT I.
STUDY DETAILS.
AD- 618 756

TARGET ACQUISITION

VERTICAL ORIENTATION IN A
HOMOGENEOUS ENVIRONMENT.
AD- 808 568

*PROPULSION SYSTEMS

MODELS (SIMULATIONS)
AUTOMATIC MODEL PROPULSION
SYSTEM FOR 3-D TERRAIN.
AD- 607 719

*PROSTHETICS

PUBLIC OPINION
REPORT OF THE QUESTIONNAIRE
STUDY OF 69 LIMB MAKERS AND LIMB
FITTERS.
AD- 641 316
PROBLEMS IN THE FITTING AND
SERVICING OF PROSTHETIC DEVICES FOR
ABOVE-THE-KNEE AMPUTEES.
AD- 641 318

*PROTECTIVE CLOTHING

TRAINING FILM EVALUATION: FB254.
COLD WEATHER UNIFORMS
AD- 073 888

*PSYCHOACOUSTICS

PSYCHOLOGICAL STUDY OF DECISION
MAKING
AD- 259 992

ERRORS

THE EFFECT OF PSYCHOPHYSICAL
METHOD AND CONTEXT ON PITCH AND
LOUDNESS FUNCTIONS.
AD- 840 089

PITCH DISCRIMINATION

PITCH AND INTENSITY.
AD- 882 891

SUBJECT INDEX-70
UNCLASSIFIED FQP40C

PRI-PSY

UNCLASSIFIED

*PSYCHOLOGICAL TESTS
AUDITORY SIGNALS
DISCRIMINATION OF SMALL TIME
INTERVALS BETWEEN A VISUAL AND AN
AUDITORY SIGNAL.
AD- 657 823

PILOTS
EXPERIMENTAL STUDY OF THE
NATURAL PILOT FLIGHT PROFICIENCY
EVALUATION MODEL.
AD- 414 868

PSYCHOPHYSIOLOGY
ONE-TRIAL LEARNING AND QUANTUM
PSYCHOPHYSICS: A SYNTHESIS.
AD- 602 516
AROUSAL AS A FACTOR IN
REMINISCENCE.
AD- 651 854

RELIABILITY
AN INVESTIGATION OF INDIVIDUAL
SUSCEPTIBILITY TO INTERFERENCE.
AD- 643 414

SOUND PITCH
PITCH CHARACTERISTICS OF SHORT
TONES. II. PITCH AS A FUNCTION OF
TONAL DURATION.
AD- 657 521

TRAINING
Trainee and Instructor Task
Qualification: Development of
Quantitative Indices and a
Predictive Methodology.
AD- 722 423

*PSYCHOLOGY
EXPERIMENTAL DESIGN
STRATEGIES OF RESEARCH DESIGN IN
PSYCHOLOGY.
AD- 660 879

*PSYCHOMOTOR TESTS
THE RELATIONSHIP BETWEEN
LISTENER ACCURACY AND CONCURRENT
PSYCHOMOTOR ACTIVITY
AD- 109 245
THE EFFECTS OF CONTINUITY IN

DISPLAY AND CONTROL MOVEMENT
RELATIONSHIPS ON TWOHAND TRACKING
PERFORMANCE
AD- 119 859

INHIBITION
THE EFFECTS OF ALTERNATING
PRACTICE ON THE PERFORMANCE OF TWO
ANTAGONISTIC MOTOR TASKS.
AD- 643 411

PERFORMANCE(HUMAN)
EVIDENCES OF ASSOCIATIVE
INTERFERENCE IN PSYCHOMOTOR
PERFORMANCE.
AD- 639 256
THE EVALUATION OF DIFFICULTY OF
TASK UNDER SEVERAL DIFFERENT
CONDITIONS OF PERFORMANCE OF THE
MODIFIED MASHBURN APPARATUS.
AD- 639 293
THE PROBLEM OF CONTROLLING LEVEL
OF LEARNING IN STUDIES OF
ASSOCIATIVE INTERFERENCE IN
PSYCHOMOTOR PERFORMANCE.
AD- 639 294
A DEMONSTRATION OF RETROACTIVE
INTERFERENCE IN PURSUIT ROTOR
LEARNING.
AD- 639 306
RETROACTIVE FACILITATION AND
INTERFERENCE IN PERFORMANCE ON THE
MODIFIED TWO-HAND COORDINATOR.
AD- 639 382

STRESS(PSYCHOLOGY)
A STUDY OF THE EFFECTS OF STRESS
ON SPEAKING AND LISTENING
ABILITIES.
AD- 639 107

TEST EQUIPMENT
DEVICES FOR STUDYING ASSOCIATIVE
INTERFERENCE IN PSYCHOMOTOR
PERFORMANCE: I. THE MODIFIED
MASHBURN APPARATUS.
AD- 639 292
DEVICES FOR STUDYING
INTERFERENCE IN PSYCHOMOTOR
PERFORMANCE: III. THE DOUBLE-DISK
PURSUIT APPARATUS.

AD- 639 304
DEVICES FOR STUDYING ASSOCIATIVE
INTERFERENCE IN PSYCHOMOTOR
PERFORMANCE: IV. THE TURRET
PURSUIT APPARATUS.
AD- 639 305
DEVICES FOR STUDYING ASSOCIATIVE
INTERFERENCE IN PSYCHOMOTOR
PERFORMANCE: II. THE MODIFIED TWO-
HAND COORDINATOR.
AD- 639 361

*PSYCHOPHYSIOLOGY
ELECTRONIC RECORDING SYSTEMS
COLLECTION AND ANALYSIS
PROCEDURES FOR PHYSIOLOGICAL DATA:
METHODOLOGY AND APPARATUS.
AD- 619 284

MATHEMATICAL MODELS
ONE-TRIAL LEARNING AND QUANTUM
PSYCHOPHYSICS: A SYNTHESIS.
AD- 602 516

PERFORMANCE(HUMAN)
Physiological Indices of a
Simple Cognitive Task.
AD- 758 638

PSYCHOLOGICAL TESTS
AROUSAL AS A FACTOR IN
REMINISCENCE.
AD- 651 854

REVIEWS
PSYCHOPHYSICAL RESEARCH:
SUMMARY REPORT 1946-1952.
AD- 639 496

*PUBLIC ADDRESS SYSTEMS
INTELLIGIBILITY
A STUDY OF THE INTELLIGIBILITY
CHARACTERISTICS OF SEVERAL ITEMS OF
MILITARY PUBLIC ADDRESS EQUIPMENT.
AD- 639 094

*PUBLIC HEALTH
TRAINING FILM EVALUATION:
COMPARISON BETWEEN TWO FILMS ON
PERSONAL HYGIENE: TFR-155 AND TFR-
1665

SUBJECT INDEX-71
UNCLASSIFIED FQP40C

PSY-PUB

UNCLASSIFIED

- AD- 073 887
- *PULSED LASERS
Trainer Engineering Report
(Final) for MILES. Volume I.
Revision.
AD-A102 276
Trainer Engineering Report
(Final) for MILES. Volume II.
Revision.
AD-A102 277
- *QUESTIONNAIRES
Procedures for Questionnaire
Development and Use in Navy
Training Feedback.
AD-A018 069
- *RADAR
AN ENGINEERING STUDY OF A TYPE
OF DATA PICK-OFF AND DISPLAY SYSTEM
FOR AIRBORNE CIC
AD- 080 477
- MAPPING
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 2.
AD- 740 409
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 5.
AD- 740 410
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 6.
AD- 740 411
- *RADAR ANTIJAMMING
TRAINING
ELECTRONIC WARFARE TRAINING IN
ANTI-JAMMING TECHNIQUES.
AD- 427 065
- *RADAR BOMBING
TRAINING DEVICES
ALL ALTITUDE CAPABILITY STUDY
FOR A RADAR LAND MASS SIMULATOR
SYSTEM,
AD- 447 975
- *RADAR CROSS SECTIONS
SIMULATION
Feasibility Study of Techniques
for Factored Transparency
Simulation of Radar Directional
Effects.
AD- 849 175
- *RADAR EQUIPMENT
INVESTIGATION OF DIGITAL
TECHNIQUES FOR RADAR LAND MASS
SIMULATION
AD- 276 698
VISIBILITY ON RADAR SCOPES.
AD- 493 403
- AIRBORNE
RECOMMENDED MODIFICATIONS OF THE
SPECIFICATIONS FOR THE AN/APS-45
(XN).
AD- 383 647
- CONTROL PANELS
A SURVEY OF THE IMPORTANCE AND
USE OF CONTROLS AND DISPLAYS ON
RADAR CONSOLE PANELS. (A
CONTRIBUTION TO PANEL LAYOUT).
AD- 639 378
- DISPLAY SYSTEMS
AN AIRBORNE RADAR DISPLAY TO
PRESENT OBSTACLE AVOIDANCE AND
FLIGHT INFORMATION.
AD- 379 146
VISIBILITY ON CATHODE-RAY TUBE
SCREENS: PROBLEMS AND METHODS.
AD- 639 290
ESTIMATIONS OF DISTANCE ON POLAR
COORDINATE PLOTS AS A FUNCTION OF
THE SCALE USED.
AD- 639 392
SUPPLEMENT TO MODIFICATION OF
THE CONTROLS OF THE IP-48/APA-58
RANGE-AZIMUTH INDICATOR.
AD- 665 895
Development of a Hybrid Radar
Landmass Simulator.
AD- 740 785
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 7.
- AD- 740 788
- EFFECTIVENESS
AN APPRAISAL OF THE VJ REMOTE
RADAR INDICATOR,
AD- 640 059
- ELECTROMAGNETIC SHIELDING
Lightning Protection for Navy
Device 2D2 Site, Astor, Florida.
AD- 869 851
- HUMAN FACTORS ENGINEERING
MAXIMUM LIMITS OF WORKING AREAS
ON VERTICAL SURFACES.
AD- 639 369
PRELIMINARY LAYOUT OF CONTROLS
AND DISPLAYS ON THE APA-56
PRODUCTION CONSOLE.
AD- 659 514
Human Engineering Aspects of the
Utilization of the Sparrow Guided
Missile System in Fighter Aircraft,
AD- 764 334
- MAN MACHINE SYSTEMS
THEORY AND METHODS FOR ANALYZING
ERRORS IN MAN-MACHINE SYSTEMS,
AD- 657 522
- *RADAR IMAGES
Radar Image Generation Software.
AD- 786 778
- BRIGHTNESS
NUMBER OF PIP-SCANS AND TARGET-
DETECTABILITY ON CERTAIN HIGH
PERSISTENCE PPI TUBES.
AD- 639 374
- ILLUSIONS
AN ILLUSORY ROTATING SWEET.
AD- 639 391
- RANGE FINDING
COMPARISON OF THE CENTER-VERSUS-
LEADING EDGE OF THE TARGET PIP IN
RANGE DETERMINATION BY THE VF
REMOTE RADAR INDICATOR.
AD- 839 383

SUBJECT INDEX-72
UNCLASSIFIED FQP40C

PUL-RAD

UNCLASSIFIED

SIMULATORS

Development of a Hybrid Radar Landmass Simulator: Engineering Report Number 1.

AD- 740 321

Development of a Hybrid Radar Landmass Simulator: Engineering Report Number 3.

AD- 740 322

VISIBILITY

SIGNAL MARK SIZE AND VISIBILITY OF RADAR SIGNALS ON A PLAN POSITION INDICATOR.

AD- 639 367

*RADAR INTERCEPTION

Description and Initial Evaluation of a Computer-Based Individual Trainer for the Radar Intercept Observer.

AD- 771 415

Field Evaluation of Model II of the Computer-Based, Individual Trainer for the Radar Intercept Officer.

AD-A002 705

*RADAR MAPPING

Radar Image Generation Software.

AD- 786 778

*RADAR NAVIGATION

Training Support Developments on Transceivers, Receivers and Transmitters, Radar, Ground or Shipboard.

AD-8025 046L

*RADAR OPERATORS

THE EFFECT OF NUMBER OF SEARCH OPERATORS, REPORTING PROCEDURES AND LOAD ON THE PERFORMANCE OF AN AIRBORNE CIC SYSTEM

AD- 043 899

ACO PERFORMANCE AS A FUNCTION OF NUMBER OF SIMULTANEOUS RAIDS AND TIME AVAILABLE FOR INTERCEPTION

AD- 043 900

TARGET INDICATION AS A FUNCTION OF INSTRUCTION

AD- 048 732

THE EFFECT ON ACO PERFORMANCE OF FOUR AIRBORNE CIC HEIGHT FINDING PROCEDURES

AD- 050 779

TRANSFER EFFECTS IN FOLLOWING TRACKING RESULTING FROM REVERSAL OF THE DISPLAY-CONTROL RELATIONSHIP ON ALTERNATE BLOCKS OF TRAILS

AD- 051 494

THE EFFECT OF NUMBER OF AIR CONTROLLERS ON THE AIR INTERCEPT CONTROL PERFORMANCE OF THE AIRBORNE CIC

AD- 065 246

THE EFFECT OF OVERLAPPING RAID SITUATIONS ON ACO INTERCEPT PERFORMANCE

AD- 065 247

AN EXPERIMENTAL EVALUATION OF FOUR COMMUNICATION PROCEDURES IN THE AIRBORNE CIC

AD- 065 248

THE DESIGN AND EVALUATION OF TWO INTERCEPT COURSE COMPUTERS

AD- 065 249

A SURVEY OF RADAR OPERATOR TRAINING PROBLEMS

AD- 142 674

PRINCIPLES AND PRELIMINARY RECOMMENDATIONS FOR A CORE SYSTEM OF NAVY RADAR OPERATOR TRAINING DEVICES

AD- 238 776

SIMULTANEOUS VS. SUCCESSIVE PRESENTATION OF RELATIVE MOTION PROBLEMS

AD- 248 419

Training Characteristics of the Automated Adaptive Ground Controlled Approach Radar Controller Training System (GCA-CTS).

AD-A027 503

Assessment of Surface Navy ECCM Training, 1975 to 1980.

AD-A095 006

GROUP DYNAMICS

TEAM TRAINING RESEARCH.

AD- 477 963

PERFORMANCE (HUMAN)

ANALYSIS OF RADAR TRAINING REQUIREMENTS.

AD- 472 414

SPEED AND ACCURACY OF OPERATING THE TARGET DESIGNATION TRANSMITTER MARK 11 MOD 1 AND THE BEARING AND RANGE INDICATOR MARK 3 MOD 2.

AD- 639 627

SOME ASPECTS OF OPERATOR PERFORMANCE ON THE VJ REMOTE RADAR INDICATOR.

AD- 639 855

MOUNTING ANGLE OF A VJ REMOTE RADAR INDICATOR AND ITS EFFECT ON OPERATOR PERFORMANCE.

AD- 648 273

THE SEARCH FACTOR IN DETECTING WEAK RADAR TARGETS.

AD- 657 478

THE ACCURACY OF A SG-1B, MOD 50 RADAR.

AD- 821 792

TRAINING

RADAR COUNTERMEASURES FIELD TRAINER DEVICE 15E1, TYPE I

AD- 350 574

*RADAR RECEIVERS

SATURATION

Surface Navy ECCM Training Analysis.

AD-8008 049L

*RADAR REFLECTIONS

PLOTTERS

EFFECT OF THE REFLECTION PLOTTER ON THE VISIBILITY OF SIGNALS IN PPI SCREENS.

AD- 840 080

TERRAIN

INVESTIGATION OF DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION.

AD- 424 625

*RADAR REPEATERS

ERRORS

THE AGREEMENT IN RANGE AND

SUBJECT INDEX-73
UNCLASSIFIED FQP40C

RAD-RAD

UNCLASSIFIED

BEARING REPORTS FROM TWO VF RADAR
REPEATERS TRACKING THE SAME TARGET
SIMULTANEOUSLY WITH THE B-SCOPE.
AD- 639 295

*RADAR SCANNING
INVESTIGATION OF DIGITAL
TECHNIQUES FOR RADAR LAND MASS
SIMULATION
AD- 276 698

AIRBORNE
INVESTIGATION OF DIGITAL
TECHNIQUES FOR RADAR LAND MASS
SIMULATION.
AD- 600 240

MILITARY TRAIN
PROCEEDINGS OF CONFERENCE ON
PROBLEMS IN RADAR SIMULATION FOR
TRAINING AND BRIEFING, 23 AND 24
MAY 1961
AD- 339 618

TERRAIN
Evaluation of Data Compression
Techniques for Radar Landmass
Terrain Data.
AD- 750 695
Radar Landmass Simulation
Computer Programming (Interim
Report).
AD- 755 722
Simulation of a Digital Radar
Landmass Simulator.
AD- 756 219

*RADAR SIGNALS
DIGITAL COMPUTERS
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 2.
AD- 740 409
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 5.
AD- 740 410
Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 6.
AD- 740 411

IDENTIFICATION
THE USE OF AUDIO SIGNALS FOR
IDENTIFICATION OF RADAR SIGNALS.
AD- 644 708

VISIBILITY
EFFECT OF THE REFLECTION PLOTTER
ON THE VISIBILITY OF SIGNALS ON PPI
SCREENS.
AD- 640 080

*RADAR TARGET DESIGNATORS
FINAL REMARKS ON THE APPRAISAL
OF THE EXPERIMENTAL TARGET
DESIGNATION EQUIPMENT
AD- 055 889

*RADAR TARGET POSITION SIMULATORS
INVESTIGATION OF COMPUTER
TECHNIQUES FOR RADAR LAND MASS
SIMULATION
AD- 259 993
RADAR LAND MASS SIMULATOR
EXPERIMENTAL MODEL
AD- 289 152

AUTOMATIC
AUTOMATIC TARGET POSITIONING
UNIT, MODEL 1.
AD- 640 071

DESIGN
TARGET GENERATING SYSTEM, TGS-1.
AD- 640 072

DISPLAY SYSTEMS
MANEUVERABLE TARGET POSITIONING
UNIT,
AD- 640 061
SIMULATED DISPLAY OF BEARING AND
RANGE IN RECTANGULAR COORDINATES.
AD- 640 075

FEASIBILITY STUDIES
Feasibility Study of Techniques
for Factored Transparency
Simulation of Radar Directional
Effects.
AD- 849 175

SEARCH RADAR

COMPARISON OF MANUAL AND
STANDARD METHODS OF TARGET
INDICATION.
AD- 639 375

*RADAR TARGETS
TARGET INDICATION FROM THE PPI
OF THE SG-1B (MOD 50) RADAR
AD- 082 804

CATHODE RAY TUBES
DETECTION OF NEW TARGETS ON A
CATHODE RAY TUBE (PPI PRESENTATION)
WITH AND WITHOUT AN ASSOCIATED
AUDITORY SIGNAL
AD- 072 813

DETECTION
PRELIMINARY STUDIES OF DETECTION
TIME AND OTHER FACTORS INVOLVED IN
AEW PERFORMANCE.
AD- 641 446
FUNCTIONAL RELATIONSHIP OF TIME
DENSITY TO THE DETECTION OF
DISCRETE RADAR TARGET EVENTS.
AD- 641 452
THE SEARCH FACTOR IN DETECTING
WEAK RADAR TARGETS.
AD- 657 478

SIMULATION
Feasibility Study of Techniques
for Factored Transparency
Simulation of Radar Directional
Effects.
AD- 849 175

SIMULATORS
RADAR TARGET SIMULATOR FOR A
THREE-DIMENSIONAL DISPLAY,
AD- 644 707
A RATE OF TURN DEVICE FOR USE
WITH THE 15-J-4-Q MOVING RADAR
TARGET GENERATOR: ITS DESIGN AND
EVALUATION.
AD- 656 834

VISIBILITY
THE EFFECT OF CRT BIAS ON
VISIBILITY OF TARGETS ON A REMOTE
PPI.

SUBJECT INDEX-74
UNCLASSIFIED FQP40C

RAD-RAD

UNCLASSIFIED

AD- 639 371

*RADAR TRACKING

THE EFFECTS OF CONTINUITY IN
DISPLAY AND CONTROL MOVEMENT
RELATIONSHIPS ON TWOHAND TRACKING
PERFORMANCE

AD- 119 859

MILITARY TRAINING

PROCEEDINGS OF CONFERENCE ON
PROBLEMS IN RADAR SIMULATION FOR
TRAINING AND BRIEFING, 23 AND 24
MAY 1961

AD- 339 618

PERFORMANCE(HUMAN)

SOME EXPERIMENTS WITH THE VF
AIDED TRACKING EQUIPMENT,

AD- 640 082

*RADAR TRAINERS

RADAR LAND MASS SIMULATOR
EXPERIMENTAL MODEL

AD- 289 152

Radar Countermeasures Field
Trainer Device 15E1, Types II, III
and V.

AD- 333 307

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.

AD- 707 757

Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.

AD- 737 226

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Training Device Center and Industry
Conference 19-21 November 1968.

AD- 854 383

COMPUTERS

INVESTIGATION OF COMPUTER
TECHNIQUES FOR RADAR LANDMASS
SIMULATION.

AD- 831 592

DIGITAL COMPUTERS

DEMONSTRATION OF DIGITAL RADAR
LANDMASS SIMULATION TECHNIQUES.

AD- 662 407

DIGITAL SYSTEMS

Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 1.

AD- 740 321

Development of a Hybrid Radar
Landmass Simulator: Engineering
Report Number 3.

AD- 740 322

NAVAL TRAINING

ANALYSIS OF RADAR TRAINING
REQUIREMENTS.

AD- 472 414

RADAR

PROCEEDINGS OF CONFERENCE ON
PROBLEMS IN RADAR SIMULATION FOR
TRAINING AND BRIEFING, 23 AND 24
MAY 1961

AD- 339 618

*RADIATION HAZARDS

LASERS

LASER PARAMETERS FOR HUMAN
VIEWING. I. AN ANALYSIS OF VIEWING
DIRECT AND SCATTERED LASER
RADIATION.

AD- 675 803

Laser Safety in Pulsed
Holography.

AD- 751 024

*RADIATION INJURIES

ON THE NATURE OF THE SPLEEN BONE
MARROW RADIATION RECOVERY FACTORY

AD- 058 392

*RADIO OPERATORS

EFFECT OF CONTROLLED
INTERFERENCE WITH LORAN SIGNALS
UPON OPERATOR PERFORMANCE

AD- 005 391

*RANGE FINDING

RADAR IMAGES

COMPARISON OF THE CENTER-VERSUS-

SUBJECT INDEX-75
UNCLASSIFIED FQP40C

LEADING EDGE OF THE TARGET PIP IN
RANGE DETERMINATION BY THE VF
REMOTE RADAR INDICATOR.

AD- 639 383

RADAR OPERATORS

THE ACCURACY OF RANGE ESTIMATION
ON A PPI WITH RESPECT TO THE
DISTANCE OF THE TARGET FROM RANGE
RINGS.

AD- 639 385

TRAINING DEVICES

LEARNING STUDIES WITH THE MARK
18 COORDINATION TRAINER DEVICE 3-A-
40.

AD- 639 035

*RANGES(FACILITIES)

AERIAL GUNNERY

Report on Results of Concept
Formulation Activities for an Armed
Aircraft Qualification Range
Scoring System.

AD- 870 828

CIRCULAR ERROR PROBABLE

Seismic Scoring System for Air-
to-Ground Weapons Training Ranges.

AD- 723 562

INFRARED EQUIPMENT

Gallium Arsenide Injection Laser
Diode Quick Kill Weapon Fire
Simulator.

AD- 863 027

*RASTERS

Cross-Scan Investigation for
Closed Circuit Television.

AD-A047 920

*REACTION (PSYCHOLOGY)

THE RECORDING OF AUDIENCE
REACTIONS BY INFRARED PHOTOGRAPHY

AD- 078 538

*REACTION(PSYCHOLOGY)

AUDITORY PERCEPTION

THE USE OF CUEING IN TRAINING
TASKS: PHASE III.

RAD-REA

UNCLASSIFIED

AD- 657 367

EXPERIMENTAL DATA
Physiological Indices of a
Simple Cognitive Task.
AD- 758 638

REFLEXES
THE EFFECT OF AMBIENT AND BODY
TEMPERATURES UPON REACTION TIME.
AD- 657 481
REACTION TIME AS A MEASURE OF
SPAN OF ATTENTION.
AD- 657 518

TIME INTERVAL COUNTERS
APPARATUS. AN ELECTRONIC
CHRONOGRAPH FOR MEASUREMENT OF
VOICE REACTION-TIME.
AD- 639 379

*READING
THE EFFECT OF SCALE NUMBERING ON
SCALE-READING ACCURACY AND SPEED
AD- 054 322
Development and Evaluation of a
Remedial Reading Workbook for Navy
Training.
AD-A079 288

ACCURACY
The Effect of Presenting Various
Numbers of Discrete Steps on Scale
Reading Accuracy.
AD- 764 028

ACHIEVEMENT TESTS
APPLICATION OF ELECTRO-
PHYSIOLOGICAL TECHNIQUES TO HUMAN
PERFORMANCE: THE READING ASSESSOR -
THE ALERTNESS INDICATOR.
AD- 639 045
RESEARCH AND DEVELOPMENT OF
READING ASSESSOR.
AD- 639 046

TEST METHODS
THE EQUATING OF READING
MATERIALS FOR VOCAL RATE-DURATION
AND INTENSITY
AD- 042 860

TIME STUDIES
TIMED PHRASES.
AD- 642 311

*READING MACHINES
An Evaluation of Microfiche
Reader Types for Use with
Programmed Instruction.
AD-A029 714

*REASONING
TRAINING ASPECTS OF DECISION
MAKING
AD- 259 187
PSYCHOLOGICAL STUDY OF DECISION
MAKING
AD- 259 992
THE ROLE OF KNOWLEDGE OF RESULTS
IN LEARNING: A SURVEY
AD- 262 937

PSYCHOLOGY
THE AMOUNT OF INFORMATION IN
ABSOLUTE JUDGMENTS.
AD- 819 798

*RECALL
PERFORMANCE(HUMAN)
THE EFFECT OF VARIOUS MODES OF
REHEARSAL ON SHORT-TERM RECALL.
AD- 605 387

*RECONNAISSANCE AIRCRAFT
RECOMMENDATIONS FOR OPERATING
PROCEDURES AND PERSONNEL ALLOCATION
IN THE CIC COMPARTMENT OF THE WV-2
AIRCRAFT
AD- 112 900

*RECORDING SYSTEMS
UTILIZATION OF THE SONOGRAPH AS
AN INSTRUMENT FOR PREDICTING THE
RELATIVE INTELLIGIBILITY OF TALKERS
IN MILITARY COMMUNICATION
AD- 045 503
THE RECORDING OF AUDIENCE
REACTIONS BY INFRARED PHOTOGRAPHY
AD- 078 538
EVALUATION OF A TAPE RECORDER-
REPRODUCER AS A COMPONENT IN A
VOICE COMMUNICATION TRAINING

DEVICE.
AD- 127 495
Comparison of Cassette versus
Reel-to-Reel Super 8mm Film
Projection Systems.
AD-B019 111L

DESIGN
The Film Analyzer (Rapid Mass
Learning).
AD- 764 039

SONAR SIGNALS
Multichannel Sonar Recorder
Design Problems and Alternatives.
AD- 900 341

TRAINING PLANES
FUNCTIONAL REQUIREMENTS FOR
AIRCRAFT WEAPON SYSTEM TRAINER
INSTRUCTOR STATION DISPLAY AND
RECORDING SYSTEMS.
AD- 464 498

*RECRUITERS
Selection and Training of Navy
Recruit Company Commanders.
AD-A062 647
An Assessment of Leadership
Training Requirements for Navy
Recruit Training Division Officers.
AD-A100 278

*RECRUITS
Navy Recruit Training
Optimization, Post-1980, Phase II:
Current Assessment and Options for
Navy Apprentice Training.
AD-A053 007
Development and Implementation
of a Computerized Evaluation and
Training System (CETS) at a Recruit
Training Command.
AD-A055 422
Navy Recruit Training
Optimization, Post 1980: Training
System Design and A Plan for
Implementation.
AD-A068 473
Navy Recruit Training
Optimization, Post-1980: Training

SUBJECT INDEX-78
UNCLASSIFIED FQP40C

REA-REC

UNCLASSIFIED

- System Design and a Plan for Implementation. Supplement I. Topic Worksheet Summaries for Use with Lesson Plan Development.
AD-A068 536
- Selection, Training, and Utilization of Navy Recruit Training Command Officers.
AD-A086 403
- An Assessment of Hispanic Recruits Who Speak English as a Second Language.
AD-A087 103
- Navy Recruit Optimization, Post-1980: Separation Process.
AD-A104 683
- Assessment of the Need for Verbal Language Instruction for Navy Recruits.
AD-A113 375
- *REENTRY VEHICLES
SIX-DEGREE-OF-FREEDOM EQUATIONS OF MOTION FOR A MANEUVERING RE-ENTRY VEHICLE
AD- 283 911
- *REFLECTOSCOPES
TELEVISION CAMERAS
A Wide Angle TV Camera Pickup Lens System Using Reflective Optics.
AD- 714 487
- *RELIABILITY
AN ANALYSIS OF THE MAINTENANCE SUPPORT SYSTEM
AD- 265 884
- *REMOTE TERMINALS
Computer Managed Instruction at Remote Sites: Phases II-III, a Demonstration Design.
AD-A051 966
- *REPLENISHMENT AT SEA
Math Model for Naval Ship Handling Trainer.
AD-A003 945
- *REPORTS
- NTEC/Industry Conference Proceedings (11th) 14-16 November 1978.
AD-A081 381
- Naval Training Equipment Center Index of Technical Reports,
AD-A086 763
- INDEXES
Naval Training Equipment Center Index of Technical Reports,
AD- 917 494L
- *RESEARCH MANAGEMENT
BASIC DIMENSIONS IN DETERMINING METHODS FOR THE APPLICATION OF SYSTEMS RESEARCH TO THE DEVELOPMENT OF TRAINING EQUIPMENT REQUIREMENTS
AD- 320 307
- Application of a Multifactor Approach to Transfer of Training Research.
AD-A108 499
- *RESOLUTION
PHOTOGRAPHY
RESOLUTION CRITERIA FOR OPTICAL AND PHOTOGRAPHIC SYSTEMS.
AD- 660 680
- VIDICONS
Systems Analysis of Vidicon Optics for the Electronic Periscope View Simulator.
AD- 751 023
- *RESOURCE MANAGEMENT
Training Effectiveness Assessment. Volume I. Current Military Training Evaluation Programs.
AD-A038 517
- Training Effectiveness Assessment. Volume II. Problems, Concepts, and Evaluation Alternatives.
AD-A038 518
- *RESOURCES
Proceedings of NTEC/Industry Conference (10th): Resource
- Conservation through Simulation Held on 15-17 November 1977.
AD-A047 905
- *RETENTION
NAVAL TRAINING
Learning, Retention and Transfer in Military Training.
AD- 733 984
- *RETENTION(PSYCHOLOGY)
INSTRUMENT FLIGHT
THE FORGETTING OF INSTRUMENT FLYING SKILLS AS A FUNCTION OF THE LEVEL OF INITIAL PROFICIENCY.
AD- 837 570
- INTELLIGIBILITY
VOICE COMMUNICATION: RETENTION OF IMPROVED INTELLIGIBILITY, II.
AD- 638 351
- THE RETENTION OF IMPROVED INTELLIGIBILITY IN VOICE COMMUNICATION,
AD- 647 139
- MEASUREMENT
Study of Long-Term Skill Retention.
AD- 503 879
- NAVAL TRAINING
Learning Retention and Transfer. Volume I.
AD- 724 778
- SYMPOSIA
Learning, Retention, and Transfer. Volume II. Appendix B: L, R, and T Technical Meetings Report.
AD- 724 790
- *RIFLES
Universal Infantry Weapons Trainer (UIWT). Volume 1. M-16 Rifle Model.
AD-A103 725
- TRAINING DEVICES
Gallium Arsenide Injection Laser

SUBJECT INDEX-77
UNCLASSIFIED FQP40C

REE-RIF

UNCLASSIFIED

Diode Quick Kill Weapon Fire Simulator.
AD- 883 027

*ROCKET ENGINES
DEVELOPMENT OF THE ADVANCED XLR73-AJ-1-ROCKET
AD- 068 222L

*ROLES(BEHAVIOR)
Instructor Pilot's Role in Simulator Training. Phase III.
AD-A061 732

*ROTARY WINGS
TRAINING DEVICES
Measurement of Trainee Performance in a Captive Rotary-Wing Device.
AD- 764 088

*SAFETY
LASERS
BIOLOGICAL EFFECTS OF LASERS: SAFETY RECOMMENDATIONS AND A COMMENT ON THE CONCEPT OF OCULAR DAMAGE.
AD- 607 718

*SALVAGE
UNDERWATER EQUIPMENT
Study, Feasibility of Undersea Salvage Simulation.
AD- 726 427

*SCALE
HUMAN FACTORS ENGINEERING
MACHINE DIALS AND SCALES.
AD- 639 868

NUMBERS
ACCURACY OF VISUAL INTERPOLATION BETWEEN SCALE MARKERS AS A FUNCTION OF THE NUMBER ASSIGNED TO THE SCALE INTERVAL,
AD- 640 094

*SCENE ANALYSIS
Objective Evaluation Method for Simulated Visual Scenes - Preliminary Analysis.

AD-A031 281

*SCHEDULING
Automated Course Scheduling System for Naval Training.
AD-A071 576
Student Flow Simulation Model for Navy Consolidated Electronic Warfare Training.
AD-A088 882
Course Scheduling Model for the Naval Training Command.
AD-A098 411

*SCHOOLS
An Analysis of Factors Affecting the Siting of Navy Instructor Training.
AD-A102 464

*SCREENS(DISPLAYS)
Distribution of Monochrome Screen Luminance in the CTOL Visual Technology Research Simulator.
AD-A111 799
Computer Program for Analysis of Spherical Screen Distortion.
AD-A113 136

DESIGN
An Investigation of a Large Screen Discrete Element Matrix Display.
AD- 878 773

DISPLAY SYSTEMS
COMPUTER ACTIVATED
ELECTROLUMINESCENT DISPLAY SCREEN.
APPLICATION OF LIGHT AND IMAGE INTENSIFICATION TECHNIQUES, PHASE I.
AD- 612 278

IMAGE INTENSIFIERS(ELECTRONICS)
Evaluation of Solid State Image Intensifier Screen.
AD- 743 956

OPTICAL PROPERTIES
PHYSICAL AND OPTICAL PROPERTIES OF PROJECTION SCREENS.

AD- 647 132

TRAINING DEVICES
INVESTIGATION OF THE IMAGING AND LUMINANCE CHARACTERISTICS ASSOCIATED WITH POINT LIGHT PROJECTION.
AD- 635 772

*SEARCH RADAR
TARGET INDICATION AS A FUNCTION OF INSTRUCTION
AD- 048 732
GENERAL THEORY OF A PULSED DOPPLER RADAR SYSTEM
AD- 061 687
AN EXPERIMENTAL EVALUATION OF FOUR COMMUNICATION PROCEDURES IN THE AIRBORNE CIC
AD- 065 248
AN EXPERIMENTAL EVALUATION OF INTEGRATED AIRBORNE EARLY WARNING SYSTEMS IN THE AIRBORNE CIC
AD- 079 296
AN EXPERIMENTAL EVALUATION OF THREE AEW-INTERCEPT SYSTEMS IN THE AIRBORNE CIC
AD- 081 025

ACCURACY
THE ACCURACY OF A SG-1B, MOD 50 RADAR,
AD- 821 792

DISPLAY SYSTEMS
APPRAISAL OF AN EXPERIMENTAL PLAN POSITION INDICATOR PRESENTING SIMULATED BEARING, RANGE, AND HEIGHT INFORMATION.
AD- 639 287

*SEATS
A CONTROLLED SUPINE SEAT FOR THE PENSACOLA HUMAN CENTRIFUGE
AD- 051 713

*SEMICONDUCTOR DEVICES
IMAGE INTENSIFIERS(ELECTRONICS)
SOLID STATE IMAGE INTENSIFIERS. PHASE III. A BROAD CONTINUING PROGRAM FOR THE APPLICATION OF

SUBJECT INDEX-78
UNCLASSIFIED FQP40C

ROC-SEM

UNCLASSIFIED

LIGHT AND IMAGE INTENSIFICATION
TECHNIQUES TO MILITARY TRAINING.
AD- 619 066

*SEMICONDUCTOR LASERS
Air-to-Air Gunnery Trainer
Utilizing a Semiconductor Laser.
AD-A021 514

*SENSES (PHYSIOLOGY)
SIMULTANEOUS VISION AND
AUDITION: THE DETECTION OF ELEMENTS
MISSING FROM OVER-LEARNED SEQUENCES
AD- 000 830
INFORMATION INPUT AND PROCESSING
VARIABLES IN MAN MACHINE SYSTEMS: A
REVIEW OF THE LITERATURE
AD- 230 997
ON THE RELATIVE IMPORTANCE OF
TIME SHARING AT CENTRAL AND
PERIPHERAL LEVELS
AD- 230 998
RELATIVE EFFECTIVENESS OF
PRESENTING INFORMATION TO SELECTED
SENSE MODALITIES
AD- 251 450

*SENSORY PERCEPTION
Naval Training Device Center
25th Anniversary Commemorative
Technical Journal.
AD- 735 487

*SEPARATION
Navy Recruit Optimization, Post-
1980: Separation Process.
AD-A104 683

*SHIP FIRES
Training Effectiveness
Evaluation of a Prototype Water-
Spray Smoke Abatement System for
Fire Fighting Training.
AD- 774 920

*SHIPS
DIGITAL INTEGRATION AND
RESOLUTION DESIGN STUDY. PART II.
NUMERICAL SOLUTION OF SHIP
EQUATIONS DEVICE 24DR1
AD- 302 283

Ship Handling and Ship Handling
Training.
AD-A038 402

*SHORT TAKEOFF AIRCRAFT
Critical Research Issues and
Visual System Requirements for a
V/STOL Training Research Simulator.
AD-A092 581

SIMULATION
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME V.
SUMMARY OF FINAL RESULTS.
AD- 815 452

*SIGNALS
PERCEPTION
THE USE OF CUING IN TRAINING
TASKS.
AD- 601 352

*SIGNAL-TO-NOISE RATIO
MEASURING INSTRUMENTS
PURDUE SPEECH INTENSITY
DEMONSTRATOR.
AD- 838 353

*SIMULATION
Proceedings of NTEC/Industry
Conference (10th): Resource
Conservation through Simulation
Held on 15-17 November 1977.
AD-A047 905
An Optimal Control Model
Analysis of Data from a Simulated
Hover Task.
AD-A099 895

PROGRAMMING (COMPUTERS)
SIMULATION SYSTEM PROGRAMMING
DESIGN MANUAL.
AD- 439 418

*SIMULATORS
PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 872 587
Naval Training Device Center
25th Anniversary Commemorative

Technical Journal.
AD- 735 487
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972
AD- 737 226
Assault Boat Equations Computer
Programming.
AD- 779 881
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363
Vehicle Hardware Designs and
Configuration.
AD-A012 856
Design Analysis Report 000
simulation.
AD-A013 597
Performance Specification for a
Maintenance Simulator for the
AN/ALQ 126 Transceiver.
AD-A020 588
Proceedings of NTEC/Industry
Conference (9th): Readiness
through Simulation held on 9-11
November 1976.
AD-A031 447
Military Weapon Simulators
Utilizing Visible Wavelength
Lasers.
AD-A042 120
Experimental Research for
Advanced Firefighting Simulators.
AD-A057 218
Survey of CIG Data Base
Generation from Imagery.
AD-A091 508
Interservice/Industry Training
Equipment Conference and Exhibition
(3rd), Orlando, Florida, 30
November-2 December 1981.
AD-A108 443
Training Support Developments on
Transceivers, Receivers and
Transmitters, Radar, Ground or
Shipboard.
AD-B025 048L

CONFINED ENVIRONMENTS

SUBJECT INDEX-79
UNCLASSIFIED FQP40C

SEM-SIM

UNCLASSIFIED

DESIGN OF AN INTERNAL
ENVIRONMENTAL SIMULATOR.
AD- 442 643

DEEP SUBMERGENCE
Underwater Terrain Navigation
and Reconnaissance Simulator.
AD- 754 091
Training in the Underwater
Terrain Navigation and
Reconnaissance Trainer Simulator.
AD- 768 734

FIRING TESTS(ORDNANCE)
Semiconductor Laser Weapon Fire
Simulators for Pop-Up and Aerial
Target Engagement Training.
AD- 742 084

LANDING CRAFT
Assault Boat Equations.
AD- 754 423

PERISCOPES
Analog Computer Mechanization of
Experimental Electronic Periscope
View Simulator.
AD- 754 795

RADAR REFLECTIONS
Digital Radar Landmass
Simulation.
AD- 758 363

RADAR SIGNALS
INVESTIGATION OF DIGITAL
TECHNIQUES FOR RADAR LAND MASS
SIMULATION.
AD- 600 240

RADAR TARGETS
A RATE OF TURN DEVICE FOR USE
WITH THE 15-J-4-Q MOVING RADAR
TARGET GENERATOR: ITS DESIGN AND
EVALUATION.
AD- 658 834

CONTROL CENTRAL: A RADAR
SIMULATOR FOR PSYCHOLOGICAL
RESEARCH,
AD- 660 010

TRAINING DEVICES
Study of Advanced Vehicle
Simulation Techniques.
AD- 736 238

*SKILLS
Computer-Assisted Judging and
Feedback of Interpersonal Skills.
AD-A066 222
Numerical Skills of Navy
Students: An Evaluation of a Skill
Development Workbook.
AD-A094 453
Development and Evaluation of a
Remedial Numerical Skills Workbook
for Navy Training.
AD-A096 073

*SMALL ARMS
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

NOISE
FUELS FOR SMALL ARMS NOISE
SIMULATORS. DEVICE 3C65D.
AD- 630 278

RANGES(FACILITIES)
Three-Dimensional Targets for
the Pop-Up Devices M31A1 and 3C52.
AD- 853 872

TRAINING DEVICES
Prototype Instinctive Firing
Training Device for Small Arms.
AD- 873 014

*SMALL ARMS AMMUNITION
TRAINING AMMUNITION
Ballistic Tests on the M-16
Training Cartridge.
AD- 854 453L

*SMALLPOX VIRUS
Rear Screen Slide Projection.
AD- 010 324

*SMOKE
LUMINESCENCE

LUMINESCENT SMOKE GENERATION
FEASIBILITY STUDY.
AD- 675 503

*SMOKE ABATEMENT
Development of Smoke Abated
Aircraft Crash/Rescue Fire Fighting
Trainer.
AD-A035 889

*SMOKE PROJECTILES
MARKERS
COLORED MARKER SHELL, HE T50E2
FOR 75MM GUN, T83E1
AD- 055 422L

*SOB ANALYSIS
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*SONAR
Training Support Developments on
Transceivers, Receivers and
Transmitters, Radar, Ground or
Shipboard.
AD-B025 046L

TRAINING DEVICES
A STUDY OF SIMULATION
REQUIREMENTS FOR SONAR OPERATOR
TRAINERS,
AD- 603 329

*SONAR ECHOES
A Technique for Shipboard Sonar
Echo Simulation for Training.
AD-A027 096

*SONAR EQUIPMENT
MAINTENANCE
THE INTRODUCTION OF THE
GENERALIZED SONAR MAINTENANCE
TRAINER INTO NAVY TRAINING FOR AN
EVALUATION OF ITS EFFECTIVENESS.
AD- 690 604
Design Characteristics of a
Digital Sonar Maintenance Trainer:
An Adjunct to Device 14E22.
AD- 729 029

SUBJECT INDEX-80
UNCLASSIFIED FQP40C

SKI-SON

UNCLASSIFIED

NAVAL TRAINING

Multichannel Sonar Recorder
Design Problems and Alternatives.
AD- 900 341

TRAINING DEVICES

FM Sonar Simulation Techniques.
AD- 732 463
Electro-Optical Multichannel
Sonar Recorder/Reproducer. Phase
II.
AD- 743 091

*SONAR OPERATORS

The Feasibility of Generalized
Acoustic Sensor Operator Training.
AD-A011 846

TRAINING DEVICES

Aspect Simulation Design Report
(Phase III) for ASW Aircraft.
AD- 917 883

*SONAR PERSONNEL

SONAR OPERATOR TRAINING: A
REVIEW OF THE LITERATURE

AD- 141 959
TRAINABLE FACTORS IN SONAR
OPERATOR PERFORMANCE

AD- 313 496
An Heuristic Approach for the
Scheduling of Navy Training
Courses.

AD-A048 183
Generalized Sonar Operator
Training: Functional Specification
and Evaluation Plan.
AD-A053 179

MILITARY TRAINING

FM Sonar Simulation Techniques.
AD- 732 463

TRAINING

THE USE OF CUING IN TRAINING
TASKS: PHASE III.

AD- 657 387
Sonar Recognition Training: An
Investigation of Whole vs Part and
Analytic vs Synthetic Procedures.
AD- 737 859

TRAINING DEVICES

THE DEVELOPMENT AND TRIAL OF A
GENERALIZED SONAR MAINTENANCE
TRAINER.
AD- 381 442

*SONAR SIGNALS

TARGET RECOGNITION
Sonar Recognition Training: An
Investigation of Whole vs Part and
Analytic vs Synthetic Procedures.
AD- 737 859

*SONAR TARGETS

Vehicle Hardware Designs and
Configuration.
AD-A012 858

Electronics Modification and
Programming for the Guidance and
Control System.

AD-A012 862
Sonar Target Vehicle Cooling
System Thermodynamic Redesign and
Evaluation.

AD-A028 385

SIMULATORS

Transducer, Low Frequency
(Basic) Device X21B57.
AD- 517 522L

*SOUND

INTENSITY
An Equal Discriminability Scale.
AD- 764 034

PERCEPTION

SOME EFFECTS OF INTERAURAL PHASE
DIFFERENCES ON THE PERCEPTION OF
PURE TONES,
AD- 657 528

*SOUND PITCH

AUDITORY PERCEPTION
PITCH CHARACTERISTICS OF SHORT
TONES. II. PITCH AS A FUNCTION OF
TONAL DURATION,
AD- 657 521

PERFORMANCE(HUMAN)

INFLECTION OF REPEATED MESSAGES.

AD- 657 422

*SOUND REPRODUCTION SYSTEMS

STUDY OF INCORPORATION OF SOUND
ON TRANSPARENCY
AD- 297 812

*SPACE PERCEPTION

RELATIVE MOTION II: THE NATURE
OF RELATIVE MOTION SITUATIONS
AD- 238 775

LEARNING

EFFECT OF LEARNING ON THE VISUAL
PERCEPTION OF DEPTH.
AD- 634 542

*SPACECRAFT CABINS

AIR CONDITIONING EQUIPMENT
INTERNAL ENVIRONMENTAL SIMULATOR
FOR A MANMACHINE SYSTEM.
AD- 431 026

*SPACECRAFT DOCKING

PROPRIOCEPTION
VERTICAL ORIENTATION IN A
HOMOGENEOUS ENVIRONMENT,
AD- 608 568

TRAINING

THE ROLE OF PREDICTION IN
TRAINING WITH A SIMULATED ORBITAL
DOCKING TASK.
AD- 638 848

*SPEECH

SOME VOCAL EFFECTS OF DIFFERENT
READING PASSAGES AND TIME DELAYS IN
SPEECH FEEDBACK

AD- 042 981

CRITIQUES AND NOTES -
PERSONALITY TRAITS AND SPEAKING
INTELLIGIBILITY

AD- 045 389

Speech Intelligibility to Motor
Activity in the Presence of High
level Noise.

AD- 045 502

UTILIZATION OF THE SONOGRAPH AS
AN INSTRUMENT FOR PREDICTING THE
RELATIVE INTELLIGIBILITY OF TALKERS

SUBJECT INDEX-81

UNCLASSIFIED FQP40C

SON-SPE

UNCLASSIFIED

IN MILITARY COMMUNICATION
AD- 045 503
A FUNDAMENTAL FREQUENCY RECORDER
FOR COMPLEX SOUNDS
AD- 045 504
RELATIONSHIPS BETWEEN CERTAIN
ASPECTS OF PERSONALITY AND SOME
VOCAL EFFECTS OF DELAYED SPEECH
FEEDBACK.
AD- 221 573

ACOUSTIC PROPERTIFS
NATURAL FREQUENCY, DURATION, AND
INTENSITY OF VOWELS IN READING,
AD- 642 506
THE EFFECT OF ROOM
CHARACTERISTICS UPON VOCAL
INTENSITY AND RATE,
AD- 642 509

INTELLIGIBILITY
THE EQUATING OF READING
MATERIALS FOR VOCAL RATE-DURATION
AND INTENSITY
AD- 042 860
THE RELATIVE INTELLIGIBILITY OF
MALE AND FEMALE TALKERS
AD- 045 390
SYLLABLE DURATION AND INTENSITY
RELATED TO INTELLIGIBILITY.
AD- 639 084
A STUDY OF THE INTELLIGIBILITY
CHARACTERISTICS OF SEVEN ITEMS OF
MILITARY PUBLIC ADDRESS EQUIPMENT.
AD- 639 094
RELATIONSHIPS BETWEEN VOICE
VARIABLES AND SPEECH
INTELLIGIBILITY IN HIGH LEVEL
NOISE.
AD- 639 095
A FURTHER INVESTIGATION OF THE
RELATIONSHIPS BETWEEN VOICE
VARIABLES AND SPEECH
INTELLIGIBILITY IN HIGH LEVEL
NOISE.
AD- 639 096
THE RELATIONSHIP BETWEEN TALKER
INTELLIGIBILITY AND MESSAGE
FAMILIARITY.
AD- 639 097
COMMUNICATION IN NOISE: SUCCESS

RELATED TO THREE DEGREES OF
EMPHASIS ON VERBAL CONTEXT.
AD- 639 099
THE RELATION BETWEEN DURATION OF
EXPOSURE TO HIGH LEVEL NOISE AND
LISTENER ACCURACY.
AD- 639 103
AN INVESTIGATION OF LISTENER
ACCURACY IN AN ENVIRONMENT OF
RELEVANT CONFLICTING VOICE SIGNALS.
AD- 639 104
EVALUATION OF A SIGNAL LEVEL
MONITORING METER AS A COMPONENT IN
A VOICE COMMUNICATION TRAINING
DEVICE.
AD- 639 105
A FACTOR ANALYSIS OF TWELVE
PHYSICAL MEASURES OF VOICE.
AD- 639 106
TRAINING MANUAL FOR PORTABLE
INTERPHONE TRAINER, DEVICE 8-I
(VOICE COMMUNICATION).
AD- 639 618
INTELLIGIBILITY IN VOICE
COMMUNICATION.
AD- 642 386
EFFECTS OF THE MODE AND RATE OF
TRANSMITTING MESSAGES UPON THE
RELATIONSHIPS BETWEEN THEIR
INTENSITY AND THE INTENSITY OF
REPETITIONS OF THEM.
AD- 642 387
PRECISION OF ARTICULATION IN
REPEATED PHRASES.
AD- 642 481
THE RELATION BETWEEN MESSAGE-
TYPE AND VOCAL RATE AND INTENSITY.
AD- 642 508
THE RETENTION OF IMPROVED
INTELLIGIBILITY IN VOICE
COMMUNICATION.
AD- 647 139
ITEM ANALYSIS, VCL
INTELLIGIBILITY TEST SERIES.
AD- 647 402
VOICE COMMUNICATION:
INTELLIGIBILITY TRAINING WITH
PURDUE SPEECH INTENSITY
DEMONSTRATOR.
AD- 654 585
EFFECT OF LEVEL OF DISTRACTING

NOISE UPON SPEAKING RATE, DURATION,
AND INTENSITY.
AD- 656 630
VOICE COMMUNICATION: EFFECT OF
STRESS ON TALKERS, A PERSONALITY
STUDY.
AD- 656 631
AN EXPERIMENTAL COMPARISON OF 5
CONDITIONS FOR VOICE COMMUNICATION
TRAINING,
AD- 657 469
RATE OF SPEAKING: I.
RELATIONSHIP BETWEEN ORIGINAL AND
REPEATED PHRASES.
AD- 657 943
SOME EFFECTS OF THE COMMON COLD
UPON SPEECH: PSYCHOLOGICAL STUDIES
OF TRAINING TECHNIQUES.
AD- 657 945
INTENSITY
LOUDNESS OF SPEAKING: THE
EFFECT OF THE INTENSITY OF SIDE-
TONE UPON THE INTENSITY OF THE
SPEAKER,
AD- 642 189
LOUDNESS OF SPEAKING: THE
EFFECT OF HEARD STIMULI ON SPOKEN
RESPONSES.
AD- 647 202
MEASUREMENT
PURDUE SPEECH INTENSITY
DEMONSTRATOR.
AD- 638 353
PSYCHOACOUSTICS
THE EFFECT ON VOCAL FREQUENCY
AND INTENSITY OF HEARING SUSTAINED
TONES WHILE READING.
AD- 642 390
TRAINING
AN EXPERIMENTAL COMPARISON OF 5
CONDITIONS FOR VOICE COMMUNICATION
TRAINING.
AD- 638 355
VELOCITY
REVISED CONCEPT OF RATE.
AD- 639 086

SUBJECT INDEX-82
UNCLASSIFIED FQP40C

SON-SPE

UNCLASSIFIED

*SPEECH RECOGNITION

- Use of Computer Speech
Understanding in Training: A
Demonstration Training System for
the Ground Controlled Approach
Controller.
AD-A033 327
- Use of Computer Speech
Understanding in Training: A
preliminary Investigation of a
Limited Continuous Speech
Recognition Capability.
AD-A049 680
- LISTEN: A System for
Recognizing Connected Speech Over
Small, Fixed Vocabularies, In Real
Time.
AD-A058 231
- Speech Understanding in Air
Intercept Controller Training
System Design.
AD-A068 612
- Voice Interactive Analysis
System Study.
AD-A074 833
- Instructor Model Characteristics
for Automated Speech Technology
(IMCAST).
AD-A079 902
- Precision Approach Radar
Training System (PARTS) Training
Effectiveness Evaluation.
AD-A091 912
- Training Implications of
Airborne Applications of Automated
Speech Recognition Technology.
AD-A098 625
- *SPEECH TRANSMISSION
INTELLIGIBILITY TESTING IN THREE
CONDITIONS INVOLVING MASKING NOISE
AD- 111 557
- INTELLIGIBILITY
VOICE COMMUNICATION: EFFECT OF
STRESS CONDITIONS ON SPEAKER
INTELLIGIBILITY.
AD- 638 350
- VOICE COMMUNICATION: RETENTION
OF IMPROVED INTELLIGIBILITY, II.
AD- 638 351

RATE OF SPEAKING: IV. EFFECTS
OF THE MODE AND LEVEL OF
TRANSMITTING MESSAGES UPON THE
RELATIONSHIP BETWEEN THEIR DURATION
AND THE DURATION OF THEIR
REPETITION.

AD- 657 946

MEASUREMENT
PURDUE SPEECH INTENSITY
DEMONSTRATOR.
AD- 638 353

STRESS(PSYCHOLOGY)
VOICE COMMUNICATION: EFFECT OF
STRESS ON TALKERS, A PERSONALITY
STUDY,
AD- 656 631

TRAINING
EFFECT OF LEVEL OF DISTRACTING
NOISE UPON SPEAKING RATE, DURATION,
AND INTENSITY.
AD- 656 630

AN EXPERIMENTAL COMPARISON OF 5
CONDITIONS FOR VOICE COMMUNICATION
TRAINING,
AD- 657 469

*STATISTICAL TESTS
ON STATISTICAL TESTS OF GROUP
DIFFERENCES
AD- 259 513

*STEREOPHOTOGRAMMETRY
Survey of CIG Data Base
Generation from Imagery.
AD-A091 508

*STEREOPHOTOGRAPHY
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE OBSERVATION TRAINING
AD- 233 913

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO GROUND
OPERATION TRAINING
AD- 233 915

COLOR PHOTOGRAPHY
Multicolor Holography.

AD- 751 560

LASERS

- Sequential Stereo Holography
with Application to X-Rays.
AD- 854 598
- An Investigation of Holographic
Parameters.
AD- 872 988
- Polarization Effects in
Holography.
AD- 874 638

PHOTOGRAPHY

- Three Hundred and Sixty Degree
Holography.
AD- 750 250

REVIEWS

- Holography.
AD- 736 926

SAFETY

- Laser Safety in Pulsed
Holography.
AD- 751 024

*STEREOSCOPE DISPLAY SYSTEMS

- Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*STEREOSCOPIC DISPLAY SYSTEMS

- METHODS OF PRESENTING MOVING
OBJECTS IN POINT LIGHT SOURCE
VISUAL DISPLAYS
AD- 233 912

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE ATTACK TRAINING
AD- 235 074

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-AIR
GUNNERY TRAINING
AD- 235 882

EVALUATION OF EXPERIMENTAL POINT
SOURCES AND TRANSPARENCIES FOR
HELICOPTER HOVERING FLIGHT
SIMULATION DEVICE 2FH2
AD- 235 883

SUBJECT INDEX-83
UNCLASSIFIED FQP40C

SPE-STE

UNCLASSIFIED

- CARRIER LANDINGS**
Display Techniques for Simulation.
AD- 881 072
- RADAR TARGETS**
RADAR TARGET SIMULATOR FOR A THREE-DIMENSIONAL DISPLAY,
AD- 644 707
- TRAINING DEVICES**
A STUDY OF 3-D EFFECTS IN VISUAL SIMULATION. PHASE I.
AD- 635 889
- *STILL PROJECTORS**
Evaluation of the Dukane Cassette/Filmstrip Projection System Model 28A28A.
AD-BO15 707
- *STIMULATION(PHYSIOLOGY)**
THE ROLE OF KNOWLEDGE OF RESULTS IN LEARNING: A SURVEY
AD- 262 937
- *STRESS (PSYCHOLOGY)**
SELECTED ABSTRACTS FROM THE LITERATURE ON STRESS
AD- 253 068
EFFECTS OF INDUCED STRESS ON LEARNING PERFORMANCE
AD- 283 105
- PERFORMANCE (HUMAN)**
PERCEPTION AND SHORT TERM MEMORY UNDER WORK LOAD STRESS.
AD- 804 886
- *STRESS(PSYCHOLOGY)**
LEARNING
THE EFFECT OF TASK-INDUCED STRESS ON CODE LEARNING.
AD- 880 022
- PSYCHOMOTOR TESTS**
A STUDY OF THE EFFECTS OF STRESS ON SPEAKING AND LISTENING ABILITIES.
AD- 839 107
- *STUDENTS**
Procedures for Questionnaire Development and Use in Navy Training Feedback.
AD-A018 089
- *SUBMARINE**
HUMAN FACTORS ENGINEERING
TRAINING EFFECTIVENESS AS A FUNCTION OF SIMULATOR COMPLEXITY.
AD- 410 239
- *SUBMARINE HULLS**
WAKE
Preliminary Study Report of a Wake Generating System for the ASW Submarine Target Device 21B12, Miniaturized.
AD- 888 191L
- *SUBMARINE PERISCOPES**
CONTROL SYSTEMS
DESIGN OF SUBMARINE PERISCOPE CONTROLS, COMMENTS ON.
AD- 660 030
- HUMAN FACTORS ENGINEERING**
THE HUMAN FACTOR IN THE DESIGN AND LAYOUT OF SUBMARINE EQUIPMENT. THE KOLLMORGEN ANY-HEIGHT PERISCOPE.
AD- 642 734
THE HUMAN FACTOR IN THE DESIGN AND LAYOUT OF SUBMARINE EQUIPMENT. KOLLMORGEN ANY HEIGHT PERISCOPE, HUMAN FACTORS IN THE OPERATION OF.
AD- 642 735
- SUBMARINE SIMULATORS**
Systems Analysis of Vidicon Optics for the Electronic Periscope View Simulator.
AD- 751 023
- *SUBMARINE PERSONNEL**
TRAINING EFFECTIVENESS AS A FUNCTION OF SIMULATOR COMPLEXITY
AD- 230 996
Basic and Advanced Submarine Officer's Tactical Training Device Requirements.
- AD- 780 778**
Tactical Decision-Making Training System Design.
AD-A002 704
- NAVAL TRAINING**
STUDY OF SUBMARINE CASUALTY CONTROL TRAINING.
AD- 488 430
SSN Tactical Team Training System.
AD- 522 919L
Advanced Officer Tactics Training Device Needs and Performance Measurement Technique. Volume II.
AD- 531 491L
TRAINING AND SUPERVISION OF CONTROLLERMEN.
AD- 656 632
Study of Training Device Needs for Meeting Basic Officer Tactics Training Requirements. Volume I.
AD- 726 428
A Study of the Impact of SSN688 Class Submarine Design on a Generalized Advanced Casualty Ship Control Training Device.
AD- 764 086
A Study of a Generalized Submarine Advanced Casualty Ship Control Training Device. Volume I. Study Findings.
AD- 878 836
Advanced Officer Tactics Training Device Needs and Performance Measurement Technique. Volume I.
AD- 922 929
- PSYCHOLOGICAL TESTS**
PERFORMANCE OF CONTROLLERMEN IN THE PROPULSION CUBICLE OF GUPPY SUBMARINES.
AD- 642 739
- *SUBMARINE SIMULATORS**
TRAINING EFFECTIVENESS AS A FUNCTION OF SIMULATOR COMPLEXITY
AD- 230 996

SUBJECT INDEX-84
UNCLASSIFIED FQP40C

STI-SUB

UNCLASSIFIED

ANTISUBMARINE WARFARE
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE.

AD- 345 873
Preliminary Study Report of a
Wake Generating System for the ASW
Submarine Target Device 21B12,
Miniaturized.
AD- 888 191L

COMPUTER PROGRAMS
Advanced Submarine Systems
Programming.
AD- 871 281

DESIGN
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 348 981

EFFECTIVENESS
Training Effectiveness
Evaluation of Naval Training
Devices. Part 1. A Study of
Submarine Diving Trainer
Effectiveness.
AD- 879 712

EQUATIONS OF MOTION
Advanced Submarine Systems
Equations Test Data.
AD- 511 958
Advanced Submarine Systems
Equations Study.
AD- 870 195

SUBMARINE PERISCOPES
Systems Analysis of Vidicon
Optics for the Electronic Periscope
View Simulator.
AD- 751 023

TRAINING
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE.

AD- 343 975

TRAINING DEVICES
STUDY OF PROPULSION AND HULL

SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 349 778L

TRANSDUCERS
Transducer, Low Frequency
(Basic) Device X21B57.
AD- 517 522L

*SUBMARINES
PRELIMINARY STUDIES OF THE
APPLICATION OF AXIAL FLOW PUMPJETS
TO THE PROPULSION OF SUBMARINES
AD- 081 381
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

AIR CONTROL CENTERS
LAYOUT, COMMUNICATION AND
SEATING IN THE AIR CONTROL CENTER
OF THE MIGRAINE III TYPE SUBMARINE.
AD- 643 117
HUMAN ENGINEERING APPRAISAL OF
THE AIR CONTROL CENTER OF PICKET
SUBMARINES.
AD- 643 155

CASUALTIES
STUDY OF SUBMARINE CASUALTY
CONTROL TRAINING.
AD- 486 430

COMMAND AND CONTROL SYSTEMS
SHIPBOARD SYSTEMS STUDIES.
ARRANGEMENT OF EQUIPMENT IN THE
ATTACK CENTER OF THE 563/564 CLASS
SUBMARINE.
AD- 820 546

CONTROL PANELS
SUBMARINE CONTROL BY A SINGLE
OPERATOR.
AD- 643 655

DAMAGE CONTROL
STUDY OF SUBMARINE DAMAGE
CONTROL TRAINING.
AD- 377 630L

DESIGN

A HUMAN ENGINEERING STUDY OF THE
FORWARD TORPEDO ROOM IN THE 563/564
CLASS SUBMARINES.

AD- 643 115
HUMAN ENGINEERING STUDY OF THE
AGSS569 CONTROL ROOM.
AD- 643 116
HUMAN FACTORS IN THE DESIGN OF
SUBMARINE COMMUNICATION SYSTEMS.
AD- 643 154

DIVING
HUMAN FACTORS IN THE DESIGN OF
THE SUBMARINE DIVING CONTROL
STATION.
AD- 642 738

FIRE CONTROL SYSTEMS
HUMAN ENGINEERING EVALUATIONS OF
THE FIRE CONTROL SYSTEM MK 101 ON
THE SSK-1.
AD- 820 544

HUMAN FACTORS ENGINEERING
THE HUMAN FACTOR IN THE DESIGN
AND LAYOUT OF SUBMARINE EQUIPMENT:
ANALYSIS OF EQUIPMENT RATINGS AND
PROPOSED LAYOUT OF SUBMARINE ATTACK
CENTER.

AD- 642 736
THE HUMAN FACTOR IN THE DESIGN
AND LAYOUT OF SUBMARINE EQUIPMENT:
ANALYSIS OF WAR PATROL REPORTS AND
INTERVIEWS.

AD- 642 737
HUMAN FACTORS IN THE DESIGN OF
THE SUBMARINE CONTROL ROOM.

AD- 642 799
MODIFICATION OF THE DESIGN OF
VISUAL DISPLAYS IN THE MANEUVERING
ROOM OF GUPPY SUBMARINES.

AD- 642 800
ARRANGEMENT OF EQUIPMENT ON THE
SSK CONVERSION.
AD- 643 153

ILLUMINATION
ILLUMINATION IN THE ATTACK
CENTER AND PERISCOPE AREA OF THE SS
563/564.

SUBJECT INDEX-85
UNCLASSIFIED FQP40C

SUB-SUB

UNCLASSIFIED

- AD- 643 828
MANEUVERABILITY
 PERFORMANCE OF CONTROLLERMEN IN
 THE PROPULSION CUBICLE OF GUPPY
 SUBMARINES.
 AD- 642 739
- OCEAN SURVEILLANCE
 Identification of Televised
 Naval Vessels as a Function of TV
 Lines per Image Height.
 AD- 861 020
- STABILITY
 Advanced Submarine Systems
 Programming.
 AD- 871 261
- TEST FACILITIES
 3-D Display System Analysis and
 Test.
 AD- 758 004
- TRAINING DEVICES
 A Study of the Impact of SSN688
 Class Submarine Design on a
 Generalized Advanced Casualty Ship
 Control Training Device.
 AD- 764 086
- *SUPERSONIC AIRCRAFT
 AERODYNAMICS
 OPTIMIZATION OF AERODYNAMIC
 EQUATIONS.
 AD- 630 268
- *SUPERVISION
 SUBMARINE PERSONNEL
 TRAINING AND SUPERVISION OF
 CONTROLLERMEN.
 AD- 856 632
- *SURFACE TARGETS
 TARGET ACQUISITION
 Visual Simulation and Image
 Interpretation.
 AD- 856 929
- *SURFACE TO AIR MISSILES
 GUNNERY TRAINERS
- FIBER OPTICS REMOTE SIGHT FOR
 ASSESSMENT OF GUNNER PERFORMANCE.
 AD- 671 073
- RADAR EQUIPMENT
 Lightning Protection for Navy
 Device 2D2 Site, Astor, Florida.
 AD- 869 851
- *SWITCHBOARDS
 Test Procedure for Trainer,
 Switchboard Operator (Allen) Device
 881.
 AD-A950 880
- *SYMBOLS
 Computer-Aided Authoring of
 Programmed Instruction for Teaching
 Symbol Recognition.
 AD-A060 143
- *SYMPOSIA
 SEMINAR ON HUMAN FACTORS IN
 MILITARY TRAINING
 AD- 288 489
 PROCEEDINGS OF THE NAVAL
 TRAINING DEVICE CENTER AND INDUSTRY
 CONFERENCE (2ND).
 AD- 672 567
 PROCEEDINGS OF THE ANNUAL NAVAL
 TRAINING DEVICE CENTER AND INDUSTRY
 CONFERENCE (4TH) HELD AT ORLANDO,
 FLORIDA, ON 18-20 NOVEMBER 1969.
 AD- 707 757
 Proceedings of the Third Naval
 Training Device Center and Industry
 Conference 19-21 November 1968.
 AD- 854 363
 Proceedings of NTEC/Industry
 Conference (10th): Resource
 Conservation through Simulation
 Held on 15-17 November 1977.
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 Proceedings (11th) 14-16 November
 1978.
 AD-A061 381
 Interservice/Industry Training
 Equipment Conference (1st),
 Orlando, Florida, 27-29 November
 1979.
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 Proceedings of LSO Training R&D
 Seminar, Held at Jacksonville,
 Florida on 22-23 January 1980.
 AD-A082 310
- ELECTRONIC COUNTERMEASURES
 TECHNICAL ANALYSIS STUDY OF
 ELECTRONIC COUNTERMEASURES AND
 ELECTRONIC WARFARE TRAINING
 DEVICES.
 AD- 380 020L
- GUIDED MISSILES
 Joint AIAA/ADA Tactical Missiles
 Meeting, March 28-30, 1973.
 AD- 526 570
- RADAR
 PROCEEDINGS OF CONFERENCE ON
 PROBLEMS IN RADAR SIMULATION FOR
 TRAINING AND BRIEFING, 23 AND 24
 MAY 1961
 AD- 339 618
- *SYMPOSIA
 Proceedings of the Naval
 Training Device Center and Industry
 Conference (5th) Held on 15-17
 February 1972.
 AD- 737 226
- *SYNTHESIS
 A Survey of Computer Controlled
 Audio Response Systems.
 AD-A950 901
- *SYSTEMS ANALYSIS
 A-8E Systems Approach to
 Training. Phase I.
 AD-A037 468
 Design Study for an Auto-
 Adaptive Landing Signal Officer
 (LSO) Training System.
 AD-A064 339
- *SYSTEMS ENGINEERING
 COSTS
 SYSTEMS RESEARCH WITH SPECIAL
 REFERENCE TO HUMAN ENGINEERING.
 AD- 643 829

SUBJECT INDEX-86
 UNCLASSIFIED FQP40C

SUP-SYS

UNCLASSIFIED

INSTRUCTION MANUALS
Simulation System Programming
Design Manual.
AD- 760 309

*SYSTEMS MANAGEMENT
The Management of Defense System
and Equipment Training: A Guide
for the Naval Education and
Training Command.
AD-A046 025

*TACHISTOSCOPES
INTELLIGIBILITY
THE MANUAL-VERBAL RESPONSE
TACHISTOSCOPE: DISTRACTING DEVICE
FOR INTELLIGIBILITY TESTING.
AD- 639 088

*TACTICAL AIR SUPPORT
NAVAL TRAINING
Investigation of Required
Television Parameters for
Simulation of the Pilot's Visual
World.
AD- 864 382

*TACTICAL WARFARE
An Assessment of U.S. Navy
Tactical Team Training Focus on the
Trained Man.
AD-A011 452

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume I. Sections 1 through 4.
AD-A038 796

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume II. Sections 5 through 5.5.
AD-A038 797

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.
Volume III. Sections 5.6 through
5.10.
AD-A038 798

Mathematical Model User's Manual
Combined Arms Tactical Training
Simulator (CATTS), Device 16A3.

Volume IV. Section 6 and Appendix
A.

AD-A038 799
Training Improvements for the
Tactical Aircrew Training System
(TACTS): Project Summary Report.

AD-A107 003
Performance Measurement and the
Navy's Tactical Aircrew Training
System (TACTS).
AD-A110 669

DECISION MAKING
Training Aspects of Computer-
Aided Decision Making. 1.
Comparison of Two Approaches to Man-
Computer Interaction.

AD- 842 370
Decision-Making Study Final
Report. 1. An Experimental
Evaluation of Tactrain: An
Approach to Computer-Aided Tactical
Decision-Making Training.
AD- 875 911

TANKS(COMBAT VEHICLES)
STUDY OF TRAINING REQUIREMENTS
FOR TANK TACTICAL TRAINING.
AD- 642 595

*TACTICAL WEAPONS
GUIDED MISSILES
Joint AIAA/AOA Tactical Missiles
Meeting, March 28-30, 1973.
AD- 528 570

*TANK SIMULATORS
Simulated Ground Vehicle Terrain
Sensing Techniques.
AD-B024 079L

*TANKS (COMBAT VEHICLES)
ENGINEERING AND ENDURANCE TEST
OF TANK, 120MM GUN T43E1 (FIRE
CONTROL PHASE)
AD- 053 472L

*TANKS(COMBAT VEHICLES)
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device

X1787). Volume I. Problem Analysis.
AD-A091 422

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume II. Requirements.
AD-A091 423

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume III. Visual.
AD-A091 424

Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume IV. Motion.

AD-A091 425
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume V. Vehicle.

AD-A091 426
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume VI. Training
Systems.

AD-A091 427
Design Definition Study Report.
Full Crew Interaction Simulator-
Laboratory Model (FCIS-LM) (Device
X1787). Volume VII. Conclusion

AD-A091 428
Simulated Ground Vehicle Terrain
Sensing Techniques.
AD-B024 079L

(*LASERS/SURFACE TARGETS
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

GUNNERY TRAINERS
Main Battle Tank - 70 (MBT-70)
Training Device Requirements Study.
AD- 395 927L

OPERATION
Design Study Report for Trainee
Sensory Inputs Device X11H28.

SUBJECT INDEX-87
UNCLASSIFIED FQP40C

SYS-TAN

UNCLASSIFIED

AD- 856 964

TRAINING DEVICES

The Training Effectiveness of
Device 3A105, Tracked Vehicle
Driving Trainer (M48A3).

AD- 754 097

*TANKS (COMBAT VEHICLES))

PROCEEDINGS OF THE NAVAL

TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).

AD- 672 567

*TARGET

MILITARY TRAINING

AN EVALUATION OF VARIOUS
TACHISTOSCOPIC AND WEFT TECHNIQUES
IN AIRCRAFT RECOGNITION.

AD- 626 468

*TARGET ACQUISITION

SIMULATION

Study Perceptually Similar
Visual Environment.

AD- 881 976

SPACE PERCEPTION

VERTICAL ORIENTATION IN A
HOMOGENEOUS ENVIRONMENT.

AD- 608 568

TELEVISION DISPLAY SYSTEMS

Investigation of Required
Television Parameters for
Simulation of the Pilot's Visual
World.

AD- 864 382

*TARGET DESIGNATORS

Laser Man Versus Man Weapon Fire
Simulation.

AD- 770 619

*TARGET DISCRIMINATION

GEOMETRIC FORMS

THE VISUAL DISCRIMINATION OF
GEOMETRIC FORMS.

AD- 840 095

DISCRIMINABILITY BETWEEN
GEOMETRIC FIGURES UNDER COMPLEX

CONDITIONS.

AD- 640 098

VISUAL ACUITY

Relative Effectiveness of Two
and Three Dimensional Image Storage
Media.

AD- 754 743

*TARGET DRONES

Electronics Modification and
Programming for the Guidance and
Control System.

AD-A012 862

*TARGET POSITION INDICATORS

DISPLAY SYSTEMS

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: SIGNALS ON A P7 SCREEN
SEEN AT DIFFERENT INTERVALS AFTER
EXCITATION.

AD- 657 515

VISIBILITY ON CATHODE-RAY TUBE
SCREENS. SCREEN BRIGHTNESS.

AD- 657 520

*TARGET RECOGNITION

Cylindrical Holograms for Target
Recognition Training.

AD-A042 430

ARMY TRAINING

COMBAT RECOGNITION REQUIREMENTS.

AD- 641 850

DISPLAY SYSTEMS

Visual Simulation and Image
Interpretation.

AD- 856 929

NAVAL TRAINING

NAVY RECOGNITION TRAINING.

AD- 641 879

SIMULATORS

Identification of Televised
Naval Vessels as a Function of TV
lines per Image Height.

AD- 881 020

VISUAL PERCEPTION

TARGET RECOGNITION AS A FUNCTION
OF VIEWING MODE.

AD- 447 252

Study Perceptually Similar
Visual Environment.

AD- 881 976

*TARGETS

Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.

AD- 854 363

CODING

TARGET CODING BY MEANS OF VISUAL
FLICKER.

AD- 840 060

PRELIMINARY RECOMMENDATIONS ON
THE TYPES OF VISUAL CODES PROPOSED
FOR THE INTEGRATED ELECTRONIC
DISPLAY SYSTEM.

AD- 644 644

FIRING TESTS (ORDNANCE)

AUTOMATED NON-MATERIAL TARGET
SYSTEM.

AD- 684 866

LIFE EXPECTANCY

Polyethylene Silhouette Target
Utilization (Device 3H23 E-Type).

AD- 736 197

MATERIALS

INVESTIGATION INTO MATERIALS AND
DESIGNS OF SMALL ARMS TARGETS FOR
'TRAINFIRE' MECHANISMS.

AD- 671 843

STEREOSCOPIC DISPLAY SYSTEMS

Three-Dimensional Targets for
the Pop-Up Devices M31A1 and JC52.

AD- 853 872

TRAINING DEVICES

INVESTIGATION INTO MATERIALS AND
DESIGNS OF SMALL ARMS TARGETS FOR
'TRAINFIRE' MECHANISMS.

AD- 671 843

*TEACHING MACHINES

SUBJECT INDEX-88
UNCLASSIFIED FQP40C

TAN-TEA

UNCLASSIFIED

RESEARCH IN THE AUTOMATION OF
TEACHING
AD- 259 994
RESPONSE MODE, PACING, AND
MOTIVATIONAL EFFECTS IN TEACHING
MACHINES
AD- 262 779
LEARNING TO IDENTIFY NONVERBAL
SOUNDS: AN APPLICATION OF A
COMPUTER AS A TEACHING MACHINE
AD- 277 188
A STUDY IN THE APPLICATIONS OF
TEACHING MACHINES
AD- 291 788

DIGITAL COMPUTERS
FURTHER EXPERIMENTS ON COMPUTER-
AIDED LEARNING OF SOUND
IDENTIFICATION.
AD- 602 079

EFFECTIVENESS
THE CLASSROOM COMMUNICATOR
(RAPID MASS LEARNING).
AD- 640 883

MILITARY TRAINING
THE INVESTIGATION OF STEP SIZE
AND ERROR RATE IN PROGRAMMED
INSTRUCTION.
AD- 607 782

PSYCHOPHYSIOLOGY
EXPLORATIONS IN THE AUTOMATION
OF SENSORIMOTOR SKILL TRAINING.
AD- 619 046

*TEACHING METHODS
Naval Training Device Center
25th Anniversary Commemorative
Technical Journal,
AD- 735 487
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 226
Acoustic Tablet Data Input from
Instructor Consoles: An Interim
Report on Computer Display
Interactive Scenario Development.

AD-A001 278
Instructional Systems
Development: Conceptual Analysis
and Comprehensive Bibliography.
AD-A024 526
Design of Training Systems
Utility Assessment. The Training
Process Flow and System
Capabilities/Requirements and
Resources Models Operating in the
TRAPAC Environment.
AD-A026 289
Training Situation Analysis for
the Advance Helicopter Flight
Training Phase.
AD-A032 771
A Study of the Effectiveness,
Feasibility, and Resource
Requirements of Instructional
Systems Development: EA-6B
Readiness Training.
AD-A035 616

ANALYSIS
Study of Training Equipment and
Individual Differences: Research on
Interactive Relationships Among
Learner Characteristics, Types of
Learning, Instructional Methods,
and Subject Matter Variables.
AD- 871 612

AUTOMATION
THE EFFECTS OF ADAPTIVE STEPPING
CRITERION ON TRACKING PERFORMANCE:
A PRELIMINARY INVESTIGATION.
AD- 898 792

CODING
A COMPARISON OF TWO METHODS OF
TEACHING MORSE CODE.
AD- 641 320

EFFECTIVENESS
THE USE OF CUING IN TRAINING
TASKS: PHASE II.
AD- 630 260
THE RELATIVE EFFECTIVENESS OF
MASSSED VERSUS SPACED FILM
PRESENTATION (RAPID MASS LEARNING).
AD- 640 448

STUDY OF TRAINING EQUIPMENT AND
INDIVIDUAL DIFFERENCES.
AD- 650 850
STUDY OF TRAINING EQUIPMENT AND
INDIVIDUAL DIFFERENCES. THE
EFFECTS OF SUBJECT MATTER
VARIABLES.
AD- 671 842

TEACHING MACHINES
THE CLASSROOM COMMUNICATOR
(RAPID MASS LEARNING).
AD- 640 883

TELEVISION SYSTEMS
TRAINING BY TELEVISION. THE
COMPARATIVE EFFECTIVENESS OF
INSTRUCTION BY TELEVISION,
TELEVISION RECORDINGS, AND
CONVENTIONAL CLASSROOM PROCEDURES.
AD- 642 396
TRAINING BY TELEVISION, A STUDY
IN LEARNING AND RETENTION.
AD- 642 526

TESTS
DEVELOPMENT AND APPRAISAL OF
DEVICES PROVIDING IMMEDIATE
AUTOMATIC SCORING OF OBJECTIVE
TESTS AND CONCOMITANT SELF-
INSTRUCTION.
AD- 639 033

TRAINING FILMS
DAYLIGHT PROJECTION OF FILM
LOOPS AS THE TEACHING MEDIUM IN
PERCEPTUAL-MOTOR SKILL TRAINING.
AD- 640 874
FILM PROFILES (RAPID MASS
LEARNING).
AD- 640 875
THE VALUE OF NOTE-TAKING DURING
FILM LEARNING (RAPID MASS
LEARNING).
AD- 640 876
EVALUATION OF A PROCEDURE FOR
USING DAYLIGHT PROJECTION OF FILM
LOOPS IN TEACHING SKILLS.
AD- 640 877
COMPARISON OF MENTAL PRACTICE
AND PHYSICAL PRACTICE IN THE

SUBJECT INDEX-89
UNCLASSIFIED FQP40C

TEA-TEA

UNCLASSIFIED

LEARNING OF PHYSICAL SKILLS.
AD- 640 878
RELATIONSHIP OF ANXIETY TO
LEARNING FROM FILMS.
AD- 640 879
RELATIONSHIP OF LENGTH AND FACT
FREQUENCY TO EFFECTIVENESS OF
INSTRUCTIONAL MOTION PICTURES.
AD- 640 880
RELATIVE EFFECTIVENESS OF
INSTRUCTION BY: FILMS EXCLUSIVELY,
FILMS PLUS STUDY GUIDES, AND
STANDARD LECTURE METHODS (RAPID
MASS LEARNING).
AD- 640 882
CONTRIBUTIONS OF FILM
INTRODUCTIONS AND FILM SUMMARIES TO
LEARNING FROM INSTRUCTIONAL FILMS.
AD- 640 885
EFFECTS OF FILM-VIEWING PRACTICE
ON LEARNING FROM INSTRUCTIONAL
FILMS (RAPID MASS LEARNING).
AD- 640 886
The Effects of Inserted
Questions and Statements on Film
Learning (Rapid Mass Learning).
AD- 764 040
TYPEWRITERS
A COMPARISON OF TWO METHODS OF
TEACHING TYPEWRITING.
AD- 641 321
*TEAMS(PERSONNEL)
An Assessment of U.S. Navy
Tactical Team Training Focus on the
Trained Man.
AD-A011 452
*TECHNICAL WRITING
Computer-Aided Authoring System
(AUTHOR) User's Guide. Volume I.
AD-A059 572
Use of Mnemonics in Training
Materials. A Guide for Technical
Writers.
AD-A064 218
*TECHNICIANS
An Heuristic Approach for the
Scheduling of Navy Training

Courses.
AD-A048 183
HUMAN FACTORS ENGINEERING
HUMAN ENGINEERING SUPPORT FOR
THE SHOREBASED ASROC WEAPON SYSTEM
TRAINER.
AD- 840 274
*TELEVISION CAMERAS
CAMERA LENSES
Wide Angle Pinhole Lens and TV
camera System Design, Fabrication
and Checkout.
AD- 867 070
DESIGN
The Analysis and Engineering
Design of a Pinhole TV Camera.
AD- 723 182
TV Pinhole Camera.
AD- 904 984
REFLECTOSCOPES
A Wide Angle TV Camera Pickup
Lens System Using Reflective
Optics.
AD- 714 487
*TELEVISION DISPLAY SYSTEMS
INVESTIGATION OF 360-DEGREE
NONPROGRAMMED VISUAL PRESENTATION.
AD- 291 468
STUDY OF TELEVISION MULTIPLE
INSERTION TECHNIQUES
AD- 291 762
Study of a New Type of Image
Transformer for TV-Projectors.
AD-A012 944
Design Analysis Report 000
simulation.
AD-A013 597
Requirements for Color in
Television Displays.
AD-A026 747
Aviation Wide-Angle Visual
System (AWAVS). Design Analysis
Report (Study Report).
AD-A037 223
Aviation Wide-Angle Visual
System (AWAVS). Trainer Design

Report. Subsystem Design Report.
AD-A046 699
OPTICAL EQUIPMENT COMPONENTS
TELEVISION TWO-DIMENSIONAL LIGHT
VALVE AND 143-DEGREE WIDE ANGLE
LENS.
AD- 636 969
PERFORMANCE(ENGINEERING)
An Investigation of a Large
Screen Discrete Element Matrix
Display.
AD- 878 773
PHOTOGRAPHIC PROJECTORS
WIDE ANGLE TELEVISION
PROJECTION. VOLUME I. (BASIC AND
APPENDICES A, B, AND C).
AD- 673 444
WIDE ANGLE TELEVISION
PROJECTION. VOLUME II.
(APPENDICES D, E, F, G, AND H).
AD- 673 445
APPLICATION OF
ELECTROPHOTOGRAPHY TO TELEVISION
PROJECTION.
AD- 673 536
TARGET RECOGNITION
Study Perceptually Similar
Visual Environment.
AD- 881 978
TEST METHODS
Setting Performance Criteria for
Visual Display Generated by
Television.
AD- 864 994
TRAINING DEVICES
Analog Computer Mechanization of
Experimental Electronic Periscope
View Simulator.
AD- 754 795
*TELEVISION EQUIPMENT
TELEVISION CAMERAS
WIDE ANGLE TELEVISION
PROJECTION, VOLUME I.
AD- 621 711

SUBJECT INDEX-90
UNCLASSIFIED FQP40C

TEA-TEL

UNCLASSIFIED

WIDE ANGLE TELEVISION
PROJECTION. VOLUME II, APPENDICES
B AND C (SCHEMATICS).
AD- 623 815

*TELEVISION SYSTEMS
SURVEY OF TELEVISION UTILIZATION
IN ARMY TRAINING
AD- 008 062
EVALUATION OF TWO KINESCOPIES
AD- 047 810
RELATIVE EFFECTIVENESS OF VERBAL
INTRODUCTIONS TO KINESCOPE
RECORDINGS AND TRAINING FILMS
AD- 073 886
VISUAL PRINCIPLES FOR TRAINING
BY TELEVISION
AD- 090 161
A STUDY OF LEARNING AND
RETENTION FROM TELEVISION
INSTRUCTION TRANSMITTED TO ARMY
FIELD FORCE RESERVISTS
AD- 109 218
INSTRUCTIONAL TELEVISION
RESEARCH REPORTS
AD- 119 109
THE TELEVISION PROGRAM AT THE
SPECIAL DEVICES CENTER
AD- 125 053
Application of Random Access
Video Programs in Navy Electronic
Warfare Training,
AD-A091 211

*TERRAIN
INFRARED DETECTORS
STUDY, SIMULATION OF INFRARED
LANDMASS DETECTION. VOLUME I.
AD- 384 186

MAPPING
COORDINATE TRANSFORMATION,
AD- 426 442

SIMULATORS
INVESTIGATION OF COMPUTER
TECHNIQUES FOR RADAR LANDMASS
SIMULATION.
AD- 631 592
DEMONSTRATION OF DIGITAL RADAR
LANDMASS SIMULATION TECHNIQUES.

AD- 862 407

*TERRAIN AVOIDANCE
DISPLAY SYSTEMS
AN AIRBORNE RADAR DISPLAY TO
PRESENT OBSTACLE AVOIDANCE AND
FLIGHT INFORMATION.
AD- 379 146

*TERRAIN MODELS
EVALUATION OF EXPERIMENTAL POINT
SOURCES AND TRANSPARENCIES FOR
HELICOPTER HOVERING FLIGHT
SIMULATION DEVICE 2FH2
AD- 235 883
Holographic Terrain Simulation.
AD-A053 472
Terrain Model Animation.
AD-A107 911
Simulated Ground Vehicle Terrain
Sensing Techniques.
AD-B024 079L

*TEST CONSTRUCTION (PSYCHOLOGY)
Trainee Performance Measurement
Development Using Multivariate
Measure Selection Techniques.
AD- 787 594

TRAINING DEVICES
CONSTRUCTION OF THE 1953 FORM OF
THE EVALUATION PROCEDURE FOR
TRAINING AIDS AND DEVICES
AD- 221 526

*TEST EQUIPMENT
ATE: Bane or Blessing for the
Technician.
AD-A056 336

VERBAL BEHAVIOR
PURDUE SPEECH SOUND TIMER.
AD- 657 488

*TEST FACILITIES
DISPLAY SYSTEMS
3-D Display System Analysis and
Test.
AD- 758 004

*TEST SETS

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1989.
AD- 707 757
Proceedings of the Third Naval
Training Device Center and Industry
Conference 19-21 November 1968.
AD- 854 363

*TESTS
TEACHING METHODS
DEVELOPMENT AND APPRAISAL OF
DEVICES PROVIDING IMMEDIATE
AUTOMATIC SCORING OF OBJECTIVE
TESTS AND CONCOMITANT SELF-
INSTRUCTION.
AD- 839 033

*TEXT PROCESSING
Computer Aided Authoring and
Editing.
AD-A096 258
Development and Test of a
Computer Readability Editing System
(CRES).
AD-A098 873
Implementing the Computer
Readability Editing System (CRES).
AD-A098 530
Computer Readability Editing
System.
AD-A099 488
Text and Illustration Processing
System (TIPS) User's Manual. Volume
1. Text Processing System.
AD-A103 678
Text and Illustration Processing
System (TIPS) User's Manual. Volume
II. Graphics Processing System.
AD-A109 779

*THERMAL TARGETS
SIMULATION
IR Land Mass Transmissions.
AD- 500 059

*THERMOCLINES
STEREOSCOPIC DISPLAY SYSTEMS
OCEANOGRAPHIC THERMAL GRADIENT
DISPLAY STUDY.

SUBJECT INDEX-91
UNCLASSIFIED FQP40C

TEL-THE

UNCLASSIFIED

- AD- 669 488
- *THRESHOLDS(PHYSIOLOGY)
PITCH DISCRIMINATION
PITCH CHARACTERISTICS OF SHORT
TONES. I. TWO KINDS OF PITCH
THRESHOLD,
AD- 639 681
- *TIME INTERVAL COUNTERS
REACTION(PSYCHOLOGY)
APPARATUS. AN ELECTRONIC
CHRONOGRAPH FOR MEASUREMENT OF
VOICE REACTION-TIME.
AD- 639 379
- *TIMING CIRCUITS
AN AUDIO TIMER
AD- 044 181
- *TIMING DEVICES
OPTICAL IMAGES
A PROJECTION TIMER FOR VISUAL
RESEARCH.
AD- 639 370
- *TOLERANCES(PHYSIOLOGY)
DECELERATION
A METHOD OF INCREASING THE
MANEUVERABILITY OF HIGH SPEED
AIRCRAFT WITHIN THE LIMITS OF HUMAN
TOLERANCE TO G FORCES.
AD- 657 449
- *TORPEDOES
THE COMPARATIVE EFFECTIVENESS OF
MOCKUP, CUTAWAY AND PROJECTED
CHARTS IN TEACHING NOMENCLATURE AND
FUNCTION OF THE 40MM ANTI-AIRCRAFT
WEAPON AND THE MARK 13 TYPE TORPEDO
AD- 063 938
- FIRE CONTROL SYSTEMS
A HUMAN ENGINEERING STUDY OF THE
FORWARD TORPEDO ROOM IN THE 563/564
CLASS SUBMARINES.
AD- 643 115
- *TOUCH
THE DISCRIMINATION OF SMALL
DIFFERENCES IN THE TIME OF
- MECHANICAL STIMULATION
AD- 043 980
RELATIVE EFFECTIVENESS OF
PRESENTING INFORMATION TO SELECTED
SENSE MODALITIES
AD- 251 450
- *TRACKED VEHICLES
PASSENGER VEHICLES
HUMAN FACTORS IN THE DESIGN OF A
UNIFORM CONTROL FEEL-AIRPLANE
RESPONSE SYSTEM
AD- 042 391
- *TRACKING
THE EFFECT ON PERFORMANCE OF
VARYING THE DIRECTIONS AND PLANES
OF MOVEMENT OF THE CONTROL CRANKS ON
A COMPENSATORY TRACKING TASK
AD- 109 240
TRANSFER EFFECTS IN COMPENSATORY
TRACKING RESULTING FROM REVERSAL OF
THE DISPLAY - CONTROL RELATIONSHIP
ON ALTERNATE BLOCKS OF TRIALS
AD- 109 353
THE EFFECT UPON PERFORMANCE ON A
FOLLOWING TRACKING TASK OF
INTERCHANGING THE DIRECTION OF
DISPLAY MOVEMENT CONTROLLED BY EACH
HAND
AD- 109 355
THE EFFECTS ON PERFORMANCE OF A
COMPENSATORY TRACKING TASK OF
INTERCHANGING THE CONTROL OF THE
AXES OF MOVEMENT BETWEEN THE HANDS
AD- 110 963
THE ROCHESTER GENERALIZED
TRACKING APPARATUS
AD- 113 742
PERFORMANCE ON A TRACKING TASK
SIMULATING FIXED GUNNERY AS A
FUNCTION OF INSTRUCTIONS AND
DIFFICULTY LEVEL OF INITIAL
TRAINING
AD- 113 744
Facilitation Effects between
Following and Compensatory Tracking
Tasks,
AD- 126 282
The Effect of Control Crank Size
on Tracking Performance.
- AD- 128 356
TRACKING TRAINING I: AN APPROACH
AD- 143 781
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517
TRACKING PERFORMANCE RELATED TO
DISPLAY CONTROL CONFIGURATIONS
AD- 228 749
ON THE RELATIVE IMPORTANCE OF
TIME SHARING AT CENTRAL AND
PERIPHERAL LEVELS
AD- 230 998
AUGMENTED FEEDBACK AND TRACKING
SKILL
AD- 230 999
TRACKING TRAINING III: TRANSFER
OF TRAINING
AD- 239 251
TRACKING TRAINING. IV. DESIGN
AND UTILIZATION OF THE GENERAL
VEHICULAR TRAINER
AD- 248 260
THE RELATIONSHIP BETWEEN THE
DIFFICULTY LEVEL AND KIND OF
TRACKING PROBLEM AND THE TYPE OF
TRACKING AND TYPE OF CONTROL
AD- 268 337
- ACCURACY
BEARING AND RANGE ACCURACY
OBTAINED BY TRACKING SIMULATED
TARGETS WITH THE UNAIDED JOYSTICK --
MARKER CONTROL MECHANISM ON THE
EXPERIMENTAL TARGET DESIGNATION
EQUIPMENT,
AD- 644 933
- MAN MACHINE SYSTEMS
THE EFFECTIVE TIME CONSTANT IN
TRACKING BEHAVIOR.
AD- 675 808
- PERFORMANCE(HUMAN)
FACTORS IN RECOVERY FROM
PERFORMANCE DECREMENT: ACTIVATION,
INHIBITION AND WARM-UP.
AD- 657 896
EFFECTS OF AUDITORY STIMULATION
UPON DECREMENT AND REMINISCENCE IN
ROTARY PURSUIT TRACKING.

SUBJECT INDEX-92
UNCLASSIFIED FQP40C

THR-TRA

UNCLASSIFIED

AD- 665 932

TRAINING DEVICES

LEARNING STUDIES WITH THE MARK
18 COORDINATION TRAINER DEVICE 3-A-
40.

AD- 639 035

TRANSFER OF TRAINING

AUGMENTING FEEDBACK AND TRANSFER
OF TRAINING.
AD- 631 405

*TRAILERS

HUMAN ENGINEERING CONSIDERATIONS
IN THE DESIGN OF THE INSTRUCTOR'S
STATION OF TRAILERIZED OPERATIONAL
FLIGHT TRAINERS

AD- 116 027

THE CONTRIBUTION OF PART-TASK
TRAINING TO THE RELEARNING OF A
FLIGHT MANEUVER

AD- 259 505

*TRAINING

INSTRUCTIONAL FILM RESEARCH
REPORTS (RAPID MASS LEARNING)

AD- 045 501

A STUDY OF THE LEARNING OF
SELECTED DRIVING SKILLS THROUGH
EXPOSURE TO A SPECIALLY PRODUCED
MOTION PICTURE FILM

AD- 237 913

TRACKING TRAINING III: TRANSFER
OF TRAINING

AD- 239 251

DESIGN FOR MAINTAINABILITY

AD- 241 901

PART-VERSUS WHOLE-TASK LEARNING
OF A FLIGHT MANEUVER

AD- 242 580

THE ACCEPTABILITY AND
EFFECTIVENESS OF THE CASUAL USE OF
AUDITORY TRAINING AIDS

AD- 243 219

TEAM TRAINING II: INDIVIDUAL
LEARNING AND TEAM PERFORMANCE

AD- 247 147

TRACKING TRAINING. IV. DESIGN
AND UTILIZATION OF THE GENERAL
VEHICULAR TRAINER

AD- 248 260

RELATIVE MOTION. III. SOME
RELATIVE MOTION PROBLEMS IN
AVIATION

AD- 256 346

TRAINING ASPECTS OF DECISION

MAKING

AD- 259 187

APPLICATION OF INFRARED
TECHNIQUES TO MILITARY TRAINING.
PHASE I. A GENERAL EXAMINATION OF
THE TECHNOLOGY

AD- 268 042

THE RELATIONSHIP BETWEEN THE
DIFFICULTY LEVEL AND KIND OF
TRACKING PROBLEM AND THE TYPE OF
TRACKING AND TYPE OF CONTROL

AD- 268 337

RESEARCH ON AUGMENTED FEEDBACK
AND THE ACQUISITION AND TRANSFER OF
SKILL

AD- 293 884

Radar Countermeasures Field
Trainer Device 15E1, Types II, III
and V.

AD- 333 307

TRACKING TRAINING V: FIELD STUDY
OF THE TRAINING EFFECTIVENESS OF
THE GENERAL VEHICULAR RESEARCH TOOL

AD- 401 583

THE PILOT'S VISUAL TASK. A
STUDY OF VISUAL DISPLAY
REQUIREMENTS.

AD- 407 440

Computer Managed Instruction in
Navy Training.

AD- 777 040

Training Analysis of P-3
Replacement Pilot Training.

AD- 777 428

Guidelines for Implementing
Training Effectiveness Evaluations.

AD- 778 349

An Assessment of U.S. Navy
Tactical Team Training Focus on the
Trained Man.

AD-A011 452

Training Resource
Classifications: Direct-Indirect
and Fixed-Variable Cost Categories.
AD-A029 179

Functional Specifications for
Computer Aided Training Systems
Development and Management (CATSDM)
Support Functions.

AD-A061 245

A Comparative Assessment of
Three Methods of Collecting
Training Feedback Information.

AD-A063 742

Computer-Assisted Judging and
Feedback of Interpersonal Skills.

AD-A066 222

Incremental Costing Model for
Use with the CNET Per Capita Course
Costing Data Base: System I.

AD-A081 759

Technology for an Efficient
Delivery System.

AD-A084 678

Ground Controlled Approach
Controller Training System
Instructor Guide.

AD-A091 846

ADAPTIVE SYSTEMS

Development of a Model for
Adaptive Training via Computer-
Assisted Instruction Utilizing
Regression Analysis Techniques.

AD- 725 466

Adaptive Training of Manual
Control: 1. Comparison of Three
Adaptive Variables and Two Logic
Schemes.

AD- 736 621

ANALYSIS OF VARIANCE

THE EFFECTS OF ALTERNATING
PRACTICE ON THE PERFORMANCE OF TWO
ANTAGONISTIC MOTOR TASKS.

AD- 843 411

COUNTING METHODS

THE EFFECT OF A SIMPLE TRAINING
PROCEDURE ON THE JUDGMENT OF VISUAL
NUMBER.

AD- 639 142

DISPLAY SYSTEMS

COMPUTER BASED ADAPTIVE TRAINING
APPLIED TO SYMBOLIC DISPLAYS.

SUBJECT INDEX-93
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

AD- 634 338

EFFECTIVENESS

TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY,
AD- 410 239
AN EXPERIMENTAL STUDY OF THE
EFFECTIVENESS OF VARIOUS TRAINING
PROCEDURES USED WITH THE AERIAL
GUNNERY TRAINING DEVICES 3-A-35 AND
3-A-2.
AD- 639 275

FEASIBILITY STUDIES

THE EVALUATION OF
TROUBLESHOOTING STRATEGIES.
AD- 438 924

HANDBOOKS

TRAINING ANALYSIS PROCEDURE
(TAP) VOLUME II. HANDBOOK FOR
APPLICATION.
AD- 436 258

JOB ANALYSIS

DEVELOPMENT OF AN IMPROVED
METHOD OF TASK ANALYSIS AND
BEGINNINGS OF A THEORY OF TRAINING.
AD- 445 869
GUIDELINES FOR TASK ANALYSIS.
AD- 445 870
A REVIEW OF THE LITERATURE ON
TASK ANALYSIS METHODS.
AD- 445 871

MANAGEMENT ENGINEERING

Construction of a Self-
Instructional Course for the
Resources Management System
Research, Development, Test and
Evaluation, Navy.
AD- 756 719

NAVAL AVIATION

Special Devices in Primary
Flight Training: Their Training
and Selection Value. A Summary
Report.
AD- 784 033

OPERATORS (PERSONNEL)

HUMAN FACTORS TECHNOLOGY IN THE
DESIGN OF SIMULATORS FOR OPERATOR
TRAINING,
AD- 432 028
PRELIMINARY INVESTIGATION OF
TRAINING REQUIREMENTS FOR AIR
CUSHION VEHICLE (ACV) OPERATORS,
AD- 609 364

PERFORMANCE(HUMAN)
STUDY OF TRAINING PERFORMANCE
EVALUATION TECHNIQUES.
AD- 609 605

PILOTS

An Investigation of Visual,
Aural, Motion and Control Movement
Cues.
AD- 726 430

PITCH DISCRIMINATION

PRACTICE EFFECTS, KNOWLEDGE OF
RESULTS AND TRANSFER IN PITCH
DISCRIMINATION.
AD- 634 221

PSYCHOLOGICAL TESTS

Trainee and Instructor Task
Qualification: Development of
Quantitative Indices and a
Predictive Methodology.
AD- 722 423

REACTION (PSYCHOLOGY)

THE USE OF CUING IN TRAINING
TASKS.
AD- 601 352

RETENTION(PSYCHOLOGY)

RETENTION OF VOICE COMMUNICATION
TRAINING AFTER ONE YEAR.
AD- 639 085

SONAR PERSONNEL

THE USE OF CUING IN TRAINING
TASKS: PHASE III.
AD- 657 387

SPACECRAFT DOCKING

THE ROLE OF PREDICTION IN
TRAINING WITH A SIMULATED ORBITAL

DOCKING TASK.
AD- 636 848

TARGET DISCRIMINATION
AN ANALYSIS OF INDUCED MOTION.
AD- 630 275

TEACHING MACHINES
EXPLORATIONS IN THE AUTOMATION
OF SENSORIMOTOR SKILL TRAINING.
AD- 619 046

TEACHING METHODS
THE USE OF CUING IN TRAINING
TASKS: PHASE II.
AD- 630 260

VISION

Eye Movement Research Program.
Annual Report Number 2. Visual
Training.
AD- 741 246

VOICE COMMUNICATIONS

THE RETENTION OF IMPROVED
INTELLIGIBILITY IN VOICE
COMMUNICATION.
AD- 647 139

WEAPON SYSTEMS

TASK ANALYSIS METHODS COMPARED
FOR APPLICATION TO TRAINING
EQUIPMENT DEVELOPMENT.
AD- 475 879

*TRAINING AMMUNITION
HAZARDS

Clothing Penetration Tests for
the M-16 Training Cartridge.
AD- 736 198

PROJECTILES

Ballistic Tests of Device X3F67A
(A Propeller of Liquid-Filled
Gelatin Balls).
AD- 880 957L

*TRAINING DEVICES

SURVEY OF TELEVISION UTILIZATION
IN ARMY TRAINING
AD- 008 082

SUBJECT INDEX-94
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

THE EFFECT OF A PRE-FILM TEST ON
LEARNING FROM AN EDUCATIONAL SOUND
MOTION PICTURE

AD- 010 042

THE EFFECTS OF KNOWLEDGE OF TEST
RESULTS ON LEARNING OF MEANINGFUL
MATERIAL

AD- 010 044

EFFECTS OF STEREOSCOPIC SOUND
MOTION PICTURE ON THE LEARNING OF A
PERCEPTUAL-MOTOR TASK

AD- 010 045

EFFECTS ON LEARNING OF THE
PROMINENCE OF ORGANIZATIONAL
OUTLINES IN INSTRUCTIONAL FILMS

AD- 010 048

Rear Screen Slide Projection.

AD- 010 324

INSTRUCTIONAL EFFECT OF THE FILM
"HOW TO OPERATE THE ARMY 16MM
SOUND PROJECTOR SET"

AD- 010 692

MONTHLY REPT. JANUARY-FEBRUARY
1953 AND CUMULATIVE INDEX JANUARY-
DECEMBER 1952

AD- 012 777

THE COMPARATIVE EFFECTIVENESS OF
MOCKUP, CUTAWAY AND PROJECTED
CHARTS IN TEACHING NOMENCLATURE AND
FUNCTION OF THE 40MM ANTI-AIRCRAFT
WEAPON AND THE MARK 13 TYPE TORPEDO

AD- 063 936

TWO SIMULATORS FOR TRAINING
PILOTS AND CONTROLLERS IN AIR
TRAFFIC CONTROL PROCEDURES

AD- 070 889

COMPARISON OF TRAINING MEDIA:
TRANSFER OF PRINCIPLES INVOLVED IN
A MANIPULATIVE SKILL; OPERATION OF
THE AIRCRAFT LOAD ADJUSTER SLIDE
RULE

AD- 081 863

VISUAL PRINCIPLES FOR TRAINING
BY TELEVISION

AD- 090 181

A COMPARISON OF PRINCIPLES
TRAINING AND SPECIFIC TRAINING
USING SEVERAL TYPES OF TRAINING
DEVICES

AD- 091 944

FUNCTIONAL SPECIFICATIONS FOR A

VOICE COMMUNICATIONS TRAINING
DEVICE,

AD- 095 052

STUDY OF THE PRESENT STATUS OF
TRAINING AIDS AND DEVICES IN THE
ARMY TRANSPORTATION COMPANY
OFFICERS COURSE

AD- 113 128

PERFORMANCE ON A TRACKING TASK
SIMULATING FIXED GUNNERY AS A
FUNCTION OF INSTRUCTIONS AND
DIFFICULTY LEVEL OF INITIAL
TRAINING

AD- 113 744

INSTRUCTIONAL TELEVISION
RESEARCH REPORTS

AD- 119 109

THE TELEVISION PROGRAM AT THE
SPECIAL DEVICES CENTER

AD- 125 053

RECOMMENDED TRAINING AIDS FOR
NIGHT VISION AND OXYGEN TRAINING
PROGRAMS

AD- 128 827

SURVEY OF UTILIZATION OF FLEET-
TYPE OPERATIONAL FLIGHT TRAINERS

AD- 133 265

HUMAN ENGINEERING CONSIDERATIONS
OF THE DESIGN OF THE INSTRUCTOR
CONSOLE OF THE MODIFIED UNDERSEA
WARFARE TACTICAL TRAINER (DEVICE RS-
8A)

AD- 142 877

HUMAN FACTORS IN MAINTENANCE.
PART I. AN INVESTIGATION OF
MAINTENANCE PROBLEMS OF A
REPRESENTATIVE TRAINING DEVICE

AD- 159 827

HOW TO GET MORE OUT OF TRAINING
AIDS

AD- 221 399

BASIC DEVELOPMENT ACCOMPLISHED
ON WIDE-ANGLE, NON-PROGRAMMED,
VISUAL PRESENTATIONS. VOLUME I

AD- 227 192

BASIC DEVELOPMENT ACCOMPLISHED
ON WIDE-ANGLE, NON-PROGRAMMED,
VISUAL PRESENTATIONS. VOLUME II.
APPENDIX

AD- 227 193

THE APPLICATION OF POINT LIGHT

SOURCE TECHNIQUES TO A BREAKOUT
LANDING ATTACHMENT FOR A TWIN-
ENGINE INSTRUMENT TRAINER

AD- 227 558

TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY

AD- 230 998

INFORMATION INPUT AND PROCESSING
VARIABLES IN MAN MACHINE SYSTEMS: A
REVIEW OF THE LITERATURE

AD- 230 997

AUGMENTED FEEDBACK AND TRACKING
SKILL

AD- 230 999

FIDELITY OF SIMULATION. I. TIME
SHARING REQUIREMENTS AND CONTROL
LOADING AS FACTORS IN TRANSFER OF
TRAINING

AD- 231 000

STUDY OF POINT LIGHT SOURCE
PROJECTION SYSTEM COMPONENTS

AD- 233 882

METHODS OF PRESENTING MOVING
OBJECTS IN POINT LIGHT SOURCE
VISUAL DISPLAYS

AD- 233 912

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE OBSERVATION TRAINING

AD- 233 913

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO GROUND
OPERATION TRAINING

AD- 233 915

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-
SURFACE ATTACK TRAINING

AD- 235 074

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO HELICOPTER
LOW-ALTITUDE NAVIGATION TRAINING

AD- 235 880

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO LOW
ALTITUDE-HIGH SPEED NAVIGATION
TRAINING

AD- 235 881

THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO AIR-TO-AIR
GUNNERY TRAINING

AD- 235 882

SUBJECT INDEX-95
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

EVALUATION OF EXPERIMENTAL POINT SOURCES AND TRANSPARENCIES FOR HELICOPTER HOVERING FLIGHT SIMULATION DEVICE 2FH2
AD- 235 883
PRINCIPLES AND PRELIMINARY RECOMMENDATIONS FOR A CORE SYSTEM OF NAVY RADAR OPERATOR TRAINING DEVICES
AD- 238 776
THE USE OF CONTEXT CUES IN TEACHING MACHINES
AD- 238 777
TRACKING TRAINING III: TRANSFER OF TRAINING
AD- 239 251
THE APPLICATION OF DIGITAL COMPUTER TECHNIQUES TO TACTICAL TRAINING SIMULATORS
AD- 240 664
AUTOMATED TEACHING: A REVIEW OF THEORY AND RESEARCH
AD- 241 283
THE EFFECTIVENESS, ACCEPTABILITY, AND FEASIBILITY OF TECHNICAL TRAINING COURSES RECORDED ON SOUND MOTION PICTURES AND SLIDES PLUS TAPES
AD- 242 697
THE ACCEPTABILITY AND EFFECTIVENESS OF THE CASUAL USE OF AUDITORY TRAINING AIDS
AD- 243 219
TRACKING TRAINING IV DESIGN AND UTILIZATION OF THE GENERAL VEHICULAR TRAINER
AD- 248 260
SIMULTANEOUS VS. SUCCESSIVE PRESENTATION OF RELATIVE MOTION PROBLEMS
AD- 248 419
RELATIVE MOTION. III. SOME RELATIVE MOTION PROBLEMS IN AVIATION
AD- 256 340
PSYCHOLOGICAL STUDY OF DECISION MAKING
AD- 259 992
DYNAMIC TEST PROGRAM FOR WEAPON SYSTEMS TRAINERS
AD- 262 667

DERIVING TRAINING DEVICE IMPLICATIONS FROM LEARNING THEORY PRINCIPLES. VOLUME I. GUIDE-LINES FOR TRAINING DEVICE DESIGN, DEVELOPMENT AND USE
AD- 264 364
EFFECTS OF PROGRAMMED PERCEPTUAL TRAINING ON THE LEARNING OF CONTACT LANDING SKILLS
AD- 264 377
DERIVING TRAINING DEVICE IMPLICATIONS FROM LEARNING THEORY PRINCIPLES. VOLUME II: METHODOLOGY
AD- 264 381
DERIVING TRAINING DEVICE IMPLICATIONS FROM LEARNING THEORY PRINCIPLES. VOLUME III: SPECIFIC LEARNING PRINCIPLES
AD- 264 568
AN ANALYSIS OF THE MAINTENANCE SUPPORT SYSTEM
AD- 265 884
APPLICATION OF INFRARED TECHNIQUES TO MILITARY TRAINING. PHASE I. A GENERAL EXAMINATION OF THE TECHNOLOGY
AD- 268 042
INVESTIGATION OF DIGITAL SIMULATION OF AIRCRAFT SYSTEMS
AD- 274 175
STUDY OF TELEVISION MULTIPLE INSERTION TECHNIQUES
AD- 291 762
STUDY OF INCORPORATION OF SOUND ON TRANSPARENCY
AD- 297 812
TRAINING ANALYSIS OF GUNFIRE SUPPORT TRAINING. THE SUPPORTING ARMS EVALUATOR AT NAB CORONADO
AD- 300 868
TRAINING ANALYSIS OF GUNFIRE SUPPORT TRAINING. SUMMARY OF FINDINGS AND RECOMMENDATIONS CONCERNING USE OF THE SUPPORTING ARMS EVALUATOR
AD- 300 870
TRAINING ANALYSIS OF GUNFIRE SUPPORT TRAINING. THE SUPPORTING ARMS EVALUATOR AT NAB LITTLE CREEK
AD- 300 891
INSTRUCTOR'S GUIDE FOR THE

OPERATION OF THE UNDERSEA WARFARE TACTICAL TRAINER (DEVICE RS-8A)
AD- 301 768
HUMAN FACTORS RECOMMENDATIONS FOR THE SHOREBASED ASROC TRAINER (DEVICE X14A2)
AD- 305 428
TRAINABLE FACTORS IN SONAR OPERATOR PERFORMANCE
AD- 313 496
HUMAN ENGINEERING ASSISTANCE FOR SHIPBOARD SIMULATION EQUIPMENT (X19A SERIES)
AD- 314 013
HUMAN FACTOR ANALYSIS OF TEAM TRAINING (U)
AD- 315 350
BASIC DIMENSIONS IN DETERMINING METHODS FOR THE APPLICATION OF SYSTEMS RESEARCH TO THE DEVELOPMENT OF TRAINING EQUIPMENT REQUIREMENTS
AD- 320 307
DYNAMIC TEST PROGRAM FOR WEAPONS SYSTEMS TRAINERS (U)
AD- 323 180
Radar Countermeasures Field Trainer Device 15E1, Types II, III and V.
AD- 333 307
TRACKING TRAINING V: FIELD STUDY OF THE TRAINING EFFECTIVENESS OF THE GENERAL VEHICULAR RESEARCH TOOL
AD- 401 583
THE PILOT'S VISUAL TASK. A STUDY OF VISUAL DISPLAY REQUIREMENTS.
AD- 407 440
HUMAN FACTORS SUPPORT IN THE DESIGN AND USE OF THE REDSTONE FIRE UNIT PROFICIENCY ANALYSER.
AD- 490 890
Description and Initial Evaluation of a Computer-Based Individual Trainer for the Radar Intercept Observer.
AD- 771 415
An Evaluation of Techniques for Choosing Instructional Media.
AD- 773 456
Design of Training Systems Phase I Summary Report.

SUBJECT INDEX-96
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

AD- 773 458
Training Analysis of P-3
Replacement Pilot and Flight
Engineer Training.
AD- 773 745
Effects of Task Index Variations
on Transfer of Training Criteria.
AD- 773 947
Training Effectiveness
Evaluation: Device 1D23,
Communication and Navigation
Trainer.
AD- 776 619
An Experimental Investigation of
the Role of Motion in Ground-Based
Trainers.
AD- 778 665
Field Evaluation of Model II of
the Computer-Based, Individual
Trainer for the Radar Intercept
Officer.
AD-A002 705
Capabilities in Wide Angle
visual Technology.
AD-A002 706
Feasibility Demonstration of a
Non-Pollutant Synthetic Fire
Fighting Trainer.
AD-A003 011
Math Model for Naval Ship
Handling Trainer.
AD-A003 945
Preliminary Specifications for
an AWG-9 WCS Maintenance Trainer
for the F-14 Aircraft.
AD-A009 365
Generalized Training Devices for
Avionic Systems Maintenance.
AD-A009 805
Study to Determine the
Requirements for an Experimental
Training Simulation System.
AD-A011 377
Decision Making and Training: A
Review of Theoretical and Empirical
Studies of Decision Making and
Their Implications for the Training
of Decision Makers.
AD-A014 490
Performance Specification for a
Maintenance Simulator for the

AN/ALQ 126 Transceiver.
AD-A020 588
Evaluation of an Automated
Flight Training System: Ground
Controlled Approach Module (GCAM).
AD-A021 533
Transfer of Training
Effectiveness: A7E Night Carrier
Landing Trainer (NCLT) Device
2F103.
AD-A028 836
Proceedings of NTEC/Industry
Conference (8th): Readiness
through Simulation held on 9-11
November 1976.
AD-A031 447
Preliminary Specification of
Real-Time PASCAL.
AD-A031 451
An Introduction to Technical
Hands-On Training System (THOTS).
AD-A032 455
Development of Smoke Abated
Aircraft Crash/Rescue Fire Fighting
Trainer.
AD-A035 999
Training Requirements for the
Naval Technical Information
Presentation Program: A Needs
Assessment.
AD-A040 260
Military Weapon Simulators
Utilizing Visible Wavelength
Lasers.
AD-A042 120
Cylindrical Holograms for Target
Recognition Training.
AD-A042 430
Theoretical Analysis of the
Proposed Panoramic Moving Target
Screen Simulator.
AD-A043 181
Computer System Requirements
Analysis Device 2F112, F-14 Weapon
System Trainer.
AD-A043 578
Navy Undergraduate Pilot
Training Jet Pipeline Training
Situation Analysis.
AD-A048 853
Cross-Scan Investigation for

Closed Circuit Television.
AD-A047 920
Automated Weapon System Trainer:
Expanded Adaptive Module for Basic
Instrument Flight Maneuvers.
AD-A048 498
Training Device Design: The
Simulation/Stimulation Controversy.
AD-A049 973
Optimization Techniques for
Automated Adaptive Training
Systems.
AD-A052 631
Analysis of Software Simulation
in Computer-Based Electronic
Equipment Maintenance Trainers.
AD-A060 583
NTEC/Industry Conference
Proceedings (11th) 14-16 November
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AD-A061 381
Issues in the ISD Process: The
NAVAIR/NAVTRAEQUIPCEN Model.
AD-A068 324
Proposed OPNAV Instruction for
Test and Evaluation of Navy
Training Devices Procured under RDT
and E Funding.
AD-A073 402
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Equipment Conference (1st),
Orlando, Florida, 27-29 November
1979.
AD-A077 856
Instructor Model Characteristics
for Automated Speech Technology
(IMCAST).
AD-A079 902
Ground Controlled Approach
Controller Training System (GCA-
CTS) System Documentation.
AD-A087 190
Precision Approach Radar
Training System (PARTS Training
Effectiveness Evaluation.
AD-A091 912
Linking Training Course Support
to Fleet Platforms: An Equipment-
Based Approach.
AD-A095 965
Training Characteristics of LSO

SUBJECT INDEX-97
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

Reverse Display.
AD-A096 864
Training Implications of
Airborne Applications of Automated
Speech Recognition Technology.
AD-A098 625
A Review of Navy Training Device
Utilization Reporting Procedures.
AD-A100 279
Interservice/Industry Training
Equipment Conference and Exhibition
(3rd), Orlando, Florida, 30
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AD-A109 443
Improved Procedures Training
through Use of Aids Developed from
Learning Guidelines.
AD-A113 109
A Guide for Preparing Procedure
Training Aids.
AD-A114 406
Test Procedure for Trainer,
Switchboard Operator (Allen) Device
881.
AD-A950 880
Techniques for Measuring the
Utilization of Major Surface and
Undersea Training Devices in Terms
of Life-Cycle Costs and Employment
Practices.
AD-A350 974
Techniques for Measuring the
Utilization of Major Aviation
Training Devices in Terms of Cost
and Application Style.
AD-A951 019
Color Displays for Training
Devices.
AD-B016 448L
Simulated Ground Vehicle Terrain
Sensing Techniques.
AD-B024 079L
A Relative Performance Analysis
of Selected Computers for Real-Time
Trainers (Preliminary Report).
AD-B053 204L

AERIAL GUNNERY
AN EXPERIMENTAL STUDY OF THE
EFFECTIVENESS OF VARIOUS TRAINING
PROCEDURES USED WITH THE AERIAL

GUNNERY TRAINING DEVICES 3-A-35 AND
3-A-2.
AD- 639 275

AIR TO SURFACE MISSILES
PROPOSED EVALUATION FOR BULLPUP
MISSILE GROUND AND IN-FLIGHT
TRAINERS.
AD- 378 903

AIR TRAFFIC CONTROL SYSTEMS
Training Effectiveness
Evaluation of Naval Training
Devices. Part I A Study of the
Effectiveness of a Carrier Air
Traffic Control Center Training
Device.
AD- 751 558

AMPHIBIOUS OPERATIONS
EXPLOSIVES SIMULATION DEVICE
(X3H14).
AD- 672 222

ANTISUBMARINE WARFARE
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE.

AD- 343 975
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE.

AD- 345 673
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 348 981

Study, Feasibility and Criteria
for an Air ASW Tactical Trainer
Complex.

AD- 529 337L
STUDY OF WAKE GENERATING SYSTEM
FOR AN ASW TRAINING DEVICE.

AD- 615 907
Training Effectiveness
Evaluation of Naval Training
Devices: An Evaluation of the
2F698 ASW Weapon System Trainer.
AD- 908 034

ARMY EQUIPMENT
RATINGS, COMMENTS AND

SUBJECT INDEX-98
UNCLASSIFIED FQP40C

RECOMMENDATIONS FOR SPECIFIC
TRAINING AIDS EMPLOYED IN THE ARMY
TRANSPORTATION COMPANY OFFICERS
COURSE.

AD- 656 635

ARTILLERY FIRE
STUDY OF THE PRESENT STATUS OF
TRAINING AIDS AND DEVICES IN THE
ARMY FIELD ARTILLERY TRAINING
PROGRAM.
AD- 642 596

AVIATION SAFETY
USING A GENERALIZED CONTACT
FLIGHT SIMULATOR TO IMPROVE VISUAL
TIME-SHARING.
AD- 619 047

COMMUNICATION SYSTEMS
EVALUATION OF THE PRIMARY FLIGHT
HELMET, DEVICE 12-BK-6 (IMPACT-
AUDIBLE SIGNAL SYSTEM FOR FLIGHT
TRAINING).
AD- 657 474

CONFINED ENVIRONMENTS
DESIGN OF AN INTERNAL
ENVIRONMENTAL SIMULATOR.
AD- 442 643

DAMAGE CONTROL
STUDY OF SURMARINE DAMAGE
CONTROL TRAINING.
AD- 377 630L

DECISION MAKING
BEHAVIORAL AND OPERATIONAL
ASPECTS OF TACTICAL DECISION MAKING
IN AAW AND ASW.

AD- 607 888
STUDY OF FUNCTIONAL REQUIREMENTS
OF TRAINING EQUIPMENT FOR ARMY
COMMAND TACTICAL DECISION MAKING.
AD- 630 312

RESEARCH ON GENERALIZED SKILLS
RELATED TO TACTICAL DECISION
MAKING.
AD- 813 382

DESIGN

TRA-TRA

UNCLASSIFIED

TRAINING ANALYSIS PROCEDURE
(TAP), VOLUME I: THEORETICAL
DEVELOPMENT.
AD- 434 816
A MECHANICAL DESCRIPTION OF A
DEVICE REPRODUCING THE AIRCRAFT AND
SHIP COURSES.
AD- 473 704
TASK ANALYSIS METHODS COMPARED
FOR APPLICATION TO TRAINING
EQUIPMENT DEVELOPMENT
AD- 475 879
TRANSFER OF TRAINING TO A MOTOR
TASK IN RELATION TO STIMULUS
SIMILARITY.
AD- 641 587
Eye Movement Research Program.
AD- 694 465
Design Characteristics of a
Digital Sonar Maintenance Trainer:
An Adjunct to Device 14E22.
AD- 729 029
Design Study Report for Trainee
Sensory Inputs Device X11H26.
AD- 856 964
DISPLAY SYSTEMS
A STUDY OF TRANSFER IN A MOTOR
TASK WITH VARYING DISPLAY-CONTROL
RELATIONSHIPS.
AD- 641 580
TRANSFER OF TRAINING FROM
PRACTICE ON COMPONENTS IN A MOTOR
SKILL.
AD- 641 581
TRANSFER TO A MOTOR SKILL FROM
PRACTICE ON A PICTURED
REPRESENTATION.
AD- 641 584
TRANSFER OF TRAINING TO A MOTOR
SKILL AS A FUNCTION OF VARIATION IN
RATE OF RESPONSE.
AD- 641 586
THE DEVELOPMENT OF
SPECIFICATIONS OF A STANDARD
DISPLAY BOARD FOR ARMY FIELD
FORCES.
AD- 658 739
ANIMATED PANEL LOGIC PROGRAMMING
TECHNIQUES.
AD- 677 476

Large-Screen Tactical Display
Systems for Training Devices.
AD- 751 559
DOSIMETERS
RESEARCH AND DEVELOPMENT OF A
SIMULATED DOSIMETER (FOR USE IN
CONJUNCTION WITH LARGE AREA RADIAC
TRAINER, DEVICE 11F6).
AD- 641 182
EFFECTIVENESS
Study of Long-Term Skill
Retention.
AD- 503 679
STUDY OF TRAINING PERFORMANCE
EVALUATION TECHNIQUES.
AD- 609 605
THE COMPARATIVE EFFECTIVENESS OF
ANIMATED AND STATIC TRANSPARENCIES.
AD- 638 330
THE SPECIAL DEVICES USED IN THE
PENSACOLA PILOT CANDIDATE SELECTION
RESEARCH PROGRAM.
AD- 639 055
TRAINING SYSTEM USE AND
EFFECTIVENESS EVALUATION.
AD- 640 423
DEVELOPMENT OF EVALUATION
PROCEDURES FOR PROTOTYPE DEVICES.
AD- 641 600
VALIDATION FIELD STUDY OF
EVALUATION PROCEDURES.
AD- 641 601
THE DEVELOPMENT OF AN EVALUATION
PROCEDURE FOR TRAINING AIDS AND
DEVICES.
AD- 642 312
STUDY OF TRAINING EQUIPMENT AND
INDIVIDUAL DIFFERENCES: THE
EFFECTS OF SUBJECT MATTER
VARIABLES, SUPPLEMENTARY REPORT.
AD- 674 428
Training Effectiveness
Evaluation of Naval Training
Devices. Part II. A Study of
Device 2F86A (S-2E Trainer)
Effectiveness.
AD- 732 795
Analysis of the Transfer of
Training, Substitution, and

Fidelity of Simulation of Transfer
Equipment.
AD- 748 594
Training Effectiveness
Evaluation of Naval Training
Devices. Part 1. A Study of
Submarine Diving Trainer
Effectiveness.
AD- 879 712
Handbook for Training Systems
Evaluation.
AD- 885 751
EJECTION SEATS
EFFECTIVENESS OF EJECTION SEAT
TRAINING WITH SPECIAL REFERENCE TO
SDC DEVICE NO. 6EQ-2.
AD- 642 247
ELECTRONIC COUNTERMEASURES
Experimental Model, ECM
Deception Repeater Trainer.
AD- 518 463L
ELECTRONIC WARFARE
TECHNICAL ANALYSIS STUDY OF
ELECTRONIC COUNTERMEASURES AND
ELECTRONIC WARFARE TRAINING
DEVICES.
AD- 380 020L
ELECTROOPTICS
LASERS FOR TRAINING DEVICES
AD- 479 782
FIRING ERROR INDICATORS
Concept Formulation Study for an
Armed Aircraft Qualification Range
Scoring System.
AD- 869 900
FLIGHT
EVALUATION OF THE SCHOOL LINK AS
AN AID IN TEACHING GROUND REFERENCE
MANEUVERS.
AD- 657 473
FLIGHT SIMULATORS
Instructor Console Instrument
Simulation.
AD- 731 739

SUBJECT INDEX-99
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

FUELS
FUELS FOR SMALL ARMS NOISE
SIMULATORS. DEVICE 3C65D.
AD- 630 278

HANDBOOKS
GUIDELINES FOR TRAINING
SITUATION ANALYSIS (TSA).
AD- 472 155
Handbook for Training Systems
Evaluation.
AD- 512 675

HELICOPTERS
THE DEVELOPMENT, APPLICATION,
AND STUDY OF THE POINT LIGHT SOURCE
TECHNIQUE DEVICE 2FH4.
AD- 435 547

HUMAN ENGINEERING
Human Factors Inputs to the
Training Device Design Process.
AD- 734 644

HUMAN FACTORS ENGINEERING
RESEARCH ON CONSIDERATION OF
TRAINING FUNCTIONS DURING DESIGN OF
OPERATIONAL EQUIPMENT
AD- 625 124

HANDBOOK FOR THE CONSIDERATION
OF TRAINING FUNCTIONS DURING DESIGN
OF OPERATIONAL EQUIPMENT
AD- 625 828

LIGHT ANTI-AIRCRAFT TRACER
OBSERVATION AND FIRE CONTROL WITH
SPECIFIC REFERENCE TO THE TRAINING
PROBLEM.
AD- 642 527

Training Device Design: Human
Factors Requirements in the
Technical Approach.
AD- 754 744

INSTRUCTION MANUALS
TRAINING MANUAL FOR PORTABLE
INTERPHONE TRAINER, DEVICE 3-I
(VOICE COMMUNICATION).
AD- 639 818

INTERCOMMUNICATION SYSTEMS
FREQUENCY DISTORTION IN THE

DEVICE 8-I PORTABLE INTERPHONE
TRAINER,
AD- 657 467

LASERS
Lasers for Training Devices.
AD- 737 658

LEARNING
LEARNING STUDIES WITH THE MARK
18 COORDINATION TRAINER DEVICE 3-A-
40.

AD- 639 035
REPORT OF RESULTS OF LEARNING
STUDIES WITH THE MARK 18
COORDINATION TRAINER DEVICE 3 - A -
40.
AD- 657 485

LOGISTICS
INTEGRATED LOGISTIC SUPPORT FOR
TRAINING DEVICES.
AD- 674 430

MAINTENANCE
CHECK LIST OF TECHNICAL RELEASES
AFFECTING TRAINING DEVICES.
AD- 428 765

MANEUVERS
UTILIZATION STUDY OF MANEUVERING
TACTICS TRAINER, DEVICE 1-BZ-2.
AD- 639 030

MILITARY REQUIREMENTS
A GUIDE FOR DETERMINING TRAINING
AID AND DEVICE REQUIREMENTS.
AD- 641 912

Study of Training Device Needs
for Meeting Basic Officer Tactics
Training Requirements. Volume I.
AD- 726 428

MILITARY TACTICS
Advanced Officer Tactics
Training Device Needs and
Performance Measurement Technique.
Volume II.
AD- 531 491L

Advanced Officer Tactics
Training Device Needs and

SUBJECT INDEX-100
UNCLASSIFIED FQP40C

Performance Measurement Technique.
Volume I.
AD- 922 929

MILITARY TRAINING
THE ENHANCEMENT OF FIRE CONTROL
TECHNICIAN PROFICIENCY BY THE USE
OF TRAINING DEVICES.

AD- 446 397
A SURVEY OF EUROPEAN TRAINING
DEVICES.
AD- 630 246

SPECIFIC RECOMMENDATIONS FOR NEW
TRAINING AIDS AND DEVICES DEVELOPED
AT THE MARINE SUPPLY SCHOOLS, CAMP
LEJEUNE, NORTH CAROLINA.
AD- 642 504

MODELS (SIMULATIONS)
AUTOMATIC MODEL PROPULSION
SYSTEM FOR 3-D TERRAIN.
AD- 607 719

NAVAL
DEVICES UNDER DEVELOPMENT.
TRAINING DEVICE GUIDE. SUPPLEMENT
NO. 1.
AD- 413 883

NAVAL AIRCRAFT
Design Study Report for a
Multiple Trainee Station Air
Navigation Trainer.
AD- 856 444L
Auxiliary Devices in High
Performance Aircraft Weapons System
Training.
AD- 901 026

NAVAL AVIATION
Man-The Focus of the Training
System. Proceedings of the Naval
Training Equipment Center and
Industry Conference (6th). Held on
November 13-15, 1973.
AD- 768 756

NAVAL PERSONNEL
ASSAULT BOAT COXSWAIN TRAINER
FEASIBILITY STUDY.
AD- 809 071

TRA-TRA

UNCLASSIFIED

NAVAL RESEARCH
NAVAL RESEARCH REVIEWS, VOL.
XXI, NO. 4, APRIL 1968.
AD- 668 709

NAVAL TRAINING
TRAINING ANALYSIS PROCEDURE
(TAP), VOLUME I: THEORETICAL
DEVELOPMENT,
AD- 434 816
PROCEEDINGS OF THE NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (2ND).
AD- 672 567

THE INTRODUCTION OF THE
GENERALIZED SONAR MAINTENANCE
TRAINER INTO NAVY TRAINING FOR AN
EVALUATION OF ITS EFFECTIVENESS.
AD- 690 604

PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO,
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757

Application and Design
Characteristics of Generalized
Training Devices.
AD- 733 471

Training Device Employment
Materials.
AD- 733 962

Naval Training Device Center
25th Anniversary Commemorative
Technical Journal,
AD- 735 487

Experimental Model Visual
Display for Ship-Handling Trainers.
AD- 753 213

Papers Presented at the Naval
Training Device Center and Industry
Conference (1st), at Orlando,
Florida on 29 November-1 December
1966.
AD- 763 842

General Specification for
Factory Training in the Operation
and Maintenance of Training
Devices.
AD- 844 853

A Study of Training Device
Requirements to Support Land Combat

Training. Volume I. Recruit
Training.
AD- 894 317L
A Study of Training Device
Requirements to Support Land Combat
Training. Volume II. Individual
Combat Training and Basic
Specialist Training.
AD- 894 318L

A Study of Training Device
Requirements to Support Land Combat
Training. Volume III. Officer
Tactical Training.
AD- 894 319L

OCEAN MODELS
MODEL OCEAN WAVE AND CURRENT
GENERATOR.
AD- 824 425

OFFICER PERSONNEL
A Study of Training Device Needs
for Meeting Basic Officer Tactics
Training Requirements. Volume II.
Classified Supplement.
AD- 516 714

OPERATION
TRAINING EFFECTIVENESS AS A
FUNCTION OF SIMULATOR COMPLEXITY.
AD- 410 235

OPERATORS (PERSONNEL)
General Specification for
Operator Services for Training
Devices.
AD- 844 854

OPTICAL TRACKING
REPORT OF RECOMMENDATIONS FOR
THE MARK 18 COORDINATION TRAINER
DEVICE 3-A-40.
AD- 639 037

PERFORMANCE (HUMAN)
THE MANEUVERING TACTICS TRAINER.
AD- 648 774
Relative Effectiveness of Two
and Three Dimensional Image Storage
Media.
AD- 754 743

PRODUCTION
DEVICES UNDER DEVELOPMENT
TRAINING DEVICE GUIDE
(SUPPLEMENT).
AD- 408 681

RADAR
Digital Radar Landmass
Simulation.
AD- 758 363

RIFLES
Gallium Arsenide Injection Laser
Diode Quick Kill Weapon Fire
Simulator.
AD- 863 027

ROTARY WINGS
Measurement of Trainee
Performance in a Captive Rotary-
Wing Device.
AD- 764 088

SCREENS (DISPLAYS)
COMPUTER ACTIVATED
ELECTROLUMINESCENT DISPLAY SCREEN.
APPLICATION OF LIGHT AND IMAGE
INTENSIFICATION TECHNIQUES. PHASE
I.
AD- 612 278

INVESTIGATION OF THE IMAGING AND
LUMINANCE CHARACTERISTICS
ASSOCIATED WITH POINT LIGHT
PROJECTION.
AD- 635 772

SIMULATION
ENVIRONMENTAL EFFECTS REPORT FOR
HELICOPTER INSTRUMENT TRAINER
DEVICE 2810A.
AD- 669 671

Simulation System Programming
Design Manual.
AD- 760 309

SIMULATORS
A STUDY OF 3-D EFFECTS IN VISUAL
SIMULATION. PHASE I.
AD- 635 869
Study of Advanced Vehicle
Simulation Techniques.

SUBJECT INDEX-101
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

AD- 736 238

SMALL ARMS
Prototype Instinctive Firing
Training Device for Small Arms.
AD- 873 014

SONAR EQUIPMENT
FM Sonar Simulation Techniques.
AD- 732 463
Electro-Optical Multichannel
Sonar Recorder/Reproducer. Phase
II.
AD- 743 091

SONAR OPERATORS
Aspect Simulation Design Report
(Phase III) for ASW Aircraft.
AD- 917 883

SONAR PERSONNEL
THE DEVELOPMENT AND TRIAL OF A
GENERALIZED SONAR MAINTENANCE
TRAINER.
AD- 381 442
Ocean Environment Simulation
Criteria.
AD- 747 699
Analysis of Underwater Acoustic
Propagation Loss Math Models in
Current Training Devices.
AD- 750 694

SPEECH
AN EXPERIMENTAL COMPARISON OF 5
CONDITIONS FOR VOICE COMMUNICATION
TRAINING.
AD- 638 355

SUBMARINE SIMULATORS
Advanced Submarine Systems
Equations Test Data.
AD- 511 956
Advanced Submarine Systems
Equations Study.
AD- 870 195

SUBMARINES
A Study of the Impact of SSN688
Class Submarine Design on a
Generalized Advanced Casualty Ship

Control Training Device.
AD- 764 086

TACTICAL WARFARE
STUDY OF TRAINING REQUIREMENTS
FOR TANK TACTICAL TRAINING.
AD- 842 595

TANKS(COMBAT VEHICLES)
The Training Effectiveness of
Device 3A105, Tracked Vehicle
Driving Trainer (M48A3).
AD- 754 097

TARGETS
INVESTIGATION INTO MATERIALS AND
DESIGNS OF SMALL ARMS TARGETS FOR
'TRAINFIRE' MECHANISMS.
AD- 671 843

TELEVISION DISPLAY SYSTEMS
WIDE ANGLE TELEVISION
PROJECTION. VOLUME I. (BASIC AND
APPENDICES A, B, AND C).
AD- 673 444
WIDE ANGLE TELEVISION
PROJECTION. VOLUME II.
(APPENDICES D, E, F, G, AND H).
AD- 673 445
Analog Computer Mechanization of
Experimental Electronic Periscope
View Simulator.
AD- 754 795

TELEVISION EQUIPMENT
TRAINING BY TELEVISION. THE
COMPARATIVE EFFECTIVENESS OF
INSTRUCTION BY TELEVISION,
TELEVISION RECORDINGS, AND
CONVENTIONAL CLASSROOM PROCEDURES.
AD- 642 396
TRAINING BY TELEVISION, A STUDY
IN LEARNING AND RETENTION.
AD- 642 528

TEST CONSTRUCTION(PSYCHOLOGY)
CONSTRUCTION OF THE 1953 FORM OF
THE EVALUATION PROCEDURE FOR
TRAINING AIDS AND DEVICES
AD- 221 528

TRACKING
ADAPTIVE TRAINING AND NONVERBAL
BEHAVIOR.
AD- 810 572

VISUAL ACUITY
EMPTY VISUAL FIELD STUDIES:
SOME EFFECTS OF CORRECTIVE LENSES,
FILTERS, AND STRUCTURE.
AD- 445 863
DETECTION IN A HOMOGENOUS VISUAL
FIELD UNDER A CONDITION OF INFINITE
DEPTH OF FOCUS.
AD- 624 531

VOICE COMMUNICATIONS
EVALUATION OF A SIGNAL LEVEL
MONITORING METER AS A COMPONENT IN
A VOICE COMMUNICATION TRAINING
DEVICE.
AD- 639 105
DIRECTIONS FOR INSTALLATION AND
OPERATION OF VOICE COMMUNICATION
TRAINING EQUIPMENT UTILIZING DEVICE
8-I.
AD- 657 465

WEAPON SYSTEMS
HUMAN FACTORS TECHNOLOGY IN THE
DESIGN OF SIMULATORS FOR OPERATOR
TRAINING.
AD- 432 028
STUDY, AIRCRAFT WEAPON SYSTEM
TRAINER INSTRUCTOR STATION DISPLAY
AND RECORDING SYSTEMS.
AD- 464 614

*TRAINING FILMS
LOGISTICS OF SOUND MOTION
PICTURES FOR MILITARY TRAINING
AD- 007 029
OPTIMUM PHYSICAL VIEWING
CONDITIONS FOR A REAR PROJECTION
DAYLIGHT SCREEN
AD- 047 609
EVALUATION OF TWO KINESCOPES
AD- 047 610
THE EFFECTS AND INTERACTIONS OF
RATE OF DEVELOPMENT, REPETITION,
PARTICIPATION AND ROOM ILLUMINATION
ON LEARNING FROM A REAR-PROJECTED

SUBJECT INDEX-102
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

FILM
AD- 047 611
RELATIVE EFFECTIVENESS OF VERBAL
INTRODUCTIONS TO KINESCOPE
RECORDINGS AND TRAINING FILMS
AD- 073 886
TRAINING FILM EVALUATION:
COMPARISON BETWEEN TWO FILMS ON
PERSONAL HYGIENE: TF8-155 AND TF8-
1665
AD- 073 887
TRAINING FILM EVALUATION: F8954,
COLD WEATHER UNIFORMS
AD- 073 888
EVALUATION OF THE FILM: MILITARY
POLICE SUPPORT IN EMERGENCIES (RIOT
CONTROL) TF19-1701
AD- 072 889
EXPLORATORY STUDIES IN THE USE
OF PICTURES AND SOUND FOR TEACHING
FOREIGN LANGUAGE VOCABULARY
AD- 078 537
THE RECORDING OF AUDIENCE
REACTIONS BY INFRARED PHOTOGRAPHY
AD- 078 538
A STUDY OF THE FEASIBILITY OF
LOCAL PRODUCTION OF MINIMUM COST
SOUND MOTION PICTURES
AD- 078 539
APPLICATIONS OF RANKING IN FILM
RESEARCH AND THE STATISTICAL
ANALYSIS OF RANKS
AD- 081 664
PROFILE ANALYSIS AND ITS EFFECT
ON LEARNING WHEN USED TO SHORTEN
RECORDED FILM COMMENTARIES
AD- 081 665
THE RELATION OF SOME MEASURES OF
ABILITY TO MEASURES OF LEARNING
FROM SOUND MOTION PICTURES
AD- 081 686
AN APPLICATION OF RESEARCH
FINDINGS TO TRAINING FILM
PRODUCTION
AD- 090 591
The Relative Effectiveness of
Differing Commentaries in an
Animated Film on Elementary
Meteorology.
AD- 090 582
EFFECTIVENESS OF SEVERAL METHODS

OF REPETITION OF FILMS
AD- 090 593
THE VALIDITY OF PICTORIAL TESTS
AND THEIR INTERACTION WITH AUDIO-
VISUAL TEACHING METHODS
AD- 096 928
Instructional Film Research
Reports (Rapid Mass Learning).
Volume II.
AD- 114 651
A STUDY OF THE LEARNING OF
SELECTED DRIVING SKILLS THROUGH
EXPOSURE TO A SPECIALLY PRODUCED
MOTION PICTURE FILM
AD- 237 913
Demonstration and Evaluation of
a Microfiche-Based Audio/Visual
System. Focus on the Trained Man.
AD-A040 249
Evaluation of Microfiche as an
Instructional Medium in a Technical
Training Environment.
AD-A044 519
ATTENTION
The Effect of Attention Gaining
Devices of Film-Mediated Learning
(Rapid Mass Learning).
AD- 764 038
DESIGN
The Relationship of Optical
Effects and Film Literacy to
Learning from Instructional Films.
AD- 764 043
EFFECTIVENESS
RELATIVE EFFECTIVENESS OF COLOR
AND BLACK AND WHITE IN
INSTRUCTIONAL FILMS.
AD- 640 873
DAYLIGHT PROJECTION OF FILM
LOOPS AS THE TEACHING MEDIUM IN
PERCEPTUAL-MOTOR SKILL TRAINING.
AD- 640 874
FILM PROFILES (RAPID MASS
LEARNING).
AD- 640 875
THE VALUE OF NOTE-TAKING DURING
FILM LEARNING (RAPID MASS
LEARNING).

AD- 640 876
EVALUATION OF A PROCEDURE FOR
USING DAYLIGHT PROJECTION OF FILM
LOOPS IN TEACHING SKILLS.
AD- 640 877
COMPARISON OF MENTAL PRACTICE
AND PHYSICAL PRACTICE IN THE
LEARNING OF PHYSICAL SKILLS.
AD- 640 878
RELATIONSHIP OF ANXIETY TO
LEARNING FROM FILMS.
AD- 640 879
RELATIONSHIP OF LENGTH AND FACT
FREQUENCY TO EFFECTIVENESS OF
INSTRUCTIONAL MOTION PICTURES.
AD- 640 880
THE EFFECTS OF PRESTIGE AND
IDENTIFICATION FACTORS ON ATTITUDE
RESTRUCTURING AND LEARNING FROM
SOUND FILMS.
AD- 640 881
RELATIVE EFFECTIVENESS OF
INSTRUCTION BY: FILMS EXCLUSIVELY,
FILMS PLUS STUDY GUIDES, AND
STANDARD LECTURE METHODS (RAPID
MASS LEARNING).
AD- 640 882
THE EFFECTS OF MENTAL HYGIENE
FILMS ON SELF-REGARDING ATTITUDES.
(RAPID MASS LEARNING).
AD- 640 884
CONTRIBUTIONS OF FILM
INTRODUCTIONS AND FILM SUMMARIES TO
LEARNING FROM INSTRUCTIONAL FILMS.
AD- 640 885
EFFECTS OF FILM-VIEWING PRACTICE
ON LEARNING FROM INSTRUCTIONAL
FILMS (RAPID MASS LEARNING).
AD- 640 886
THE EVALUATION OF INSTRUCTIONAL
FILMS BY A TRAINED PANEL USING A
FILM ANALYSIS FORM.
AD- 654 584
PRACTICAL PRINCIPLES GOVERNING
THE PRODUCTION AND UTILIZATION OF
SOUND MOTION PICTURES.
AD- 657 459
Effects of Learner
Representation in Film-Mediated
Perceptual-Motor Learning (Rapid
Mass Learning).

SUBJECT INDEX-103
UNCLASSIFIED FQP40C

TRA-TRA

UNCLASSIFIED

AD- 764 037
The Film Analyzer (Rapid Mass Learning).
AD- 764 039
Effects on Training of Experimental Film Variables. Study I: Verbalization, Rate of Development, Nomenclature, Errors, 'How-it-Works', Repetition (Rapid Mass Learning).
AD- 764 041
Comparison of the Audio and Video Elements of Instructional Films (Rapid Mass Learning).
AD- 764 042

LEARNING
LEARNING THEORIES AND INSTRUCTIONAL FILM RESEARCH (RAPID MASS LEARNING).
AD- 640 450

MUSIC
Music in Motion Pictures: Review of Literature with Implications for Instructional Films (Rapid Mass Learning).
AD- 764 035

NAVAL TRAINING
The Use of Wide-Angle Cinematic Simulators in Pilot Training.
AD- 766 507

SCIENTIFIC RESEARCH
LIST OF REPORTS AND SUMMARIES OF RESULTS OF RESEARCH ON INSTRUCTIONAL FILMS.
AD- 639 034

INSTRUCTIONAL FILM PRODUCTION, UTILIZATION AND RESEARCH IN GREAT BRITAIN, CANADA AND AUSTRALIA (RAPID MASS LEARNING).
AD- 640 427

TEACHING METHODS
THE RELATIVE EFFECTIVENESS OF MASSED VERSUS SPACED FILM PRESENTATION (RAPID MASS LEARNING).
AD- 640 446
The Effects of Inserted

Questions and Statements on Film Learning (Rapid Mass Learning).
AD- 764 040

*TRAINING PLANES
FLIGHT SIMULATORS
Simulation of T-28 Aircraft.
AD- 754 741

*TRAINING DEVICES
NAVAL TRAINING
Proceedings of the Third Naval Training Device Center and Industry Conference 19-21 November 1968.
AD- 854 363

*TRANSDUCERS
UNDERWATER SOUND
Transducer, Low Frequency (Basic) Device X21B57.
AD- 517 522L

*TRANSFER OF TRAINING
TRANSFER EFFECTS IN FOLLOWING TRACKING RESULTING FROM REVERSAL OF THE DISPLAY-CONTROL RELATIONSHIP ON ALTERNATE BLOCKS OF TRAILS
AD- 051 494

THE TRANSFER OF TRACKING SKILL AS A FUNCTION OF TASK DIFFICULTY (TARGET SIZE)
AD- 109 345

Simultaneous Functioning of Retroactive Facilitation and Interference.
AD- 128 719

TRANSFER OF TRAINING IN FLIGHT PROCEDURES FROM SELECTED GROUND TRAINING DEVICES TO THE AIRCRAFT
AD- 149 547

AUGMENTED FEEDBACK AND TRACKING SKILL
AD- 230 999

FIDELITY OF SIMULATION. I. TIME SHARING REQUIREMENTS AND CONTROL LOADING AS FACTORS IN TRANSFER OF TRAINING
AD- 231 000

A TRAINING ANALYSIS OF THE PILOT'S TASK IN TRANSITIONING TO JET VTOL AIRCRAFT

AD- 231 477
TRACKING TRAINING III: TRANSFER OF TRAINING
AD- 239 251
PART-VERSUS WHOLE-TASK LEARNING OF A FLIGHT MANEUVER
AD- 242 580
PARAMETERS AFFECTING THE RELATIVE EFFICIENCY OF PART AND WHOLE TRAINING METHODS: A REVIEW OF THE LITERATURE
AD- 275 921

RESEARCH ON AUGMENTED FEEDBACK AND THE ACQUISITION AND TRANSFER OF SKILL
AD- 293 884

Effects of Task Index Variations on Transfer of Training Criteria.
AD- 773 947

A7E Transfer of Training Effectiveness: Device 2C15A CPT and Device 2F84B OFT/WST.
AD-A027 691

Transfer of Training Effectiveness: A7E Night Carrier Landing Trainer (NCLT) Device 2F103.
AD-A028 836

The Effects of Simulator Landing Practice and the Contribution of Motion Simulation to P-3 Pilot Training.
AD-A061 143

Application of a Multifactor Approach to Transfer of Training Research.
AD-A108 499

FEEDBACK
AUGMENTING FEEDBACK AND TRANSFER OF TRAINING.
AD- 631 405

LEARNING
ADAPTIVE TRAINING AND NONVERBAL BEHAVIOR.
AD- 610 572

MEASUREMENT
THE MEASUREMENT OF TRANSFER OF TRAINING.

SUBJECT INDEX-104
UNCLASSIFIED FQ40C

TRA-TRA

UNCLASSIFIED

AD- 641 582

MILITARY PERSONNEL
PSYCHOLOGICAL STUDIES OF
ADVANCED NAVAL AIR TRAINING:
EVALUATION OF OPERATIONAL FLIGHT
TRAINERS.

AD- 643 499

MOTOR REACTIONS

A STUDY OF TRANSFER IN A MOTOR
TASK WITH VARYING DISPLAY-CONTROL
RELATIONSHIPS.

AD- 641 580

TRANSFER OF TRAINING FROM
PRACTICE ON COMPONENTS IN A MOTOR
SKILL.

AD- 641 581

TRANSFER OF DISCRIMINATION TO A
MOTOR TASK.

AD- 641 583

TRANSFER TO A MOTOR SKILL FROM
PRACTICE ON A PICTURED
REPRESENTATION.

AD- 641 584

ON THE RELATION BETWEEN
SIMILARITY AND TRANSFER OF TRAINING
IN THE LEARNING OF DISCRIMINATIVE
MOTOR TASKS.

AD- 641 585

TRANSFER OF TRAINING TO A MOTOR
SKILL AS A FUNCTION OF VARIATION IN
RATE OF RESPONSE.

AD- 641 586

TRANSFER OF TRAINING TO A MOTOR
TASK IN RELATION TO STIMULUS
SIMILARITY.

AD- 641 587

FURTHER ATTEMPTS TO DEMONSTRATE
INTERFERENCE IN THE PERFORMANCE OF
ROTARY PURSUIT TASKS.

AD- 643 858

STIMULUS PRE-DIFFERENTIATION AS
A FACTOR IN TRANSFER OF TRAINING.

AD- 657 191

NAVAL AVIATION

Analysis of the Transfer of
Training, Substitution, and
Fidelity of Simulation of Transfer
Equipment.

AD- 748 594

PERFORMANCE(HUMAN)
AN EXPERIMENTAL PROGRAM FOR
RELATING TRANSFER OF TRAINING TO
PILOT PERFORMANCE AND DEGREE OF
SIMULATION.

AD- 471 806

Transfer as a Function of Task
Difficulty in Pursuit-Rotor and
Paired-Associate Learning.

AD- 714 841

PILOTS

PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION:
I. VARIATIONS IN PROGRAM CYCLE
TIME AND AERODYNAMIC EQUATIONS.

AD- 646 023

PILOT PERFORMANCE, TRANSFER OF
TRAINING AND DEGREE OF SIMULATION.
II. VARIATIONS IN AERODYNAMIC
COEFFICIENTS.

AD- 655 837

*TRANSFER OF TRAINING

Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.

AD- 737 226

*TRANSFORMATIONS

PLOTTERS
COORDINATE TRANSFORMATION,

AD- 426 442

*TRANSPORT AIRCRAFT

MATHEMATICAL MODELS
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT, VOLUME VI, XC-142
ANALOG COMPUTER PROGRAM STUDY: XC-
142A SIMULATION EQUATION
MECHANIZATION.

AD- 667 264

*TRANSPORTATION

MILITARY REQUIREMENTS
HUMAN FACTORS IN THE DESIGN OF A
UNIFORM CONTROL FEEL-AIRPLANE
RESPONSE SYSTEM

AD- 042 391

*TURBOJET ENGINES
FLIGHT SIMULATOR
A STUDY OF ENGINE SIMULATION
METHODS FOR OPERATIONAL FLIGHT
TRAINERS.

AD- 419 929

SIMULATION

A STUDY OF ENGINE SIMULATION
METHODS FOR OPERATIONAL FLIGHT
TRAINERS: PHASE III.

AD- 419 861

A STUDY OF ENGINE SIMULATION
METHODS FOR OPERATIONAL FLIGHT
TRAINERS (PHASE II REPORT).

AD- 419 960

A STUDY OF ENGINE SIMULATION
METHODS FOR OPERATIONAL FLIGHT
TRAINERS (PHASE I REPORT).

AD- 424 149

*TURBOPROPELLER JET ENGINES
FLIGHT SIMULATOR

A STUDY OF ENGINE SIMULATION
METHODS FOR OPERATIONAL FLIGHT
TRAINERS.

AD- 419 929

*TYPEWRITERS

NAVAL TRAINING
The Evaluation of Two Automated
Systems for Teaching Typewriting.

AD- 910 397

TEACHING METHODS

A COMPARISON OF TWO METHODS OF
TEACHING TYPEWRITING.

AD- 641 321

*ULTRASONIC RADIATION

ELECTROOPTICS
LASER DEFLECTION BY
TORSIONALLY RESONANT HORN LOADED
PIEZOELECTRIC CERAMIC.

AD- 818 660

TOLERANCES(PHYSIOLOGY)

THE EFFECTS OF ULTRASONIC
VIBRATIONS ON MAN.

SUBJECT INDEX-105
UNCLASSIFIED FQP40C

TRA-ULT

UNCLASSIFIED

- AD- 639 363
- *UNDERSEA WARFARE
Project Therblig
AD- 058 443
Knowledgeable Opponent Models
for Enemy Submarine Tactics in
Training Simulators.
AD-A076 236
- *UNDERWATER COMMUNICATION SYSTEMS
SUBMARINES
HUMAN FACTORS IN THE DESIGN OF
SUBMARINE COMMUNICATION SYSTEMS.
AD- 643 154
- *UNDERWATER NAVIGATION
NAVAL TRAINING
Underwater Terrain Navigation
and Reconnaissance Simulator.
AD- 754 091
Training in the Underwater
Terrain Navigation and
Reconnaissance Trainer Simulator.
AD- 768 734
- *UNDERWATER OBJECT LOCATORS
MINESWEEPERS
A STUDY OF THE PLOTTING AND
COMMUNICATION FACILITIES IN THE
CHART ROOM OF UOL EQUIPPED
MINESWEEPERS
AD- 643 205
- *UNDERWATER PROPULSION
ENGINE NOISE
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 349 778L
- SUBMARINE SIMULATORS
STUDY OF PROPULSION AND HULL
SYSTEM FOR AN ASW TRAINING VEHICLE
AD- 348 981
- *UNDERWATER ROCKETS
NAVAL TRAINING
HUMAN ENGINEERING SUPPORT FOR
THE SHOREBASED ASROC WEAPON SYSTEM
TRAINER,
AD- 840 274
- *UNDERWATER SOUND
ATTENUATION
Analysis of Underwater Acoustic
Propagation Loss Math Models in
Current Training Devices.
AD- 750 694
- SOUND TRANSMISSION
Ocean Environment Simulation
Criteria.
AD- 747 699
- TRANSDUCERS
Transducer, Low Frequency
(Basic) Device X21857.
AD- 517 522L
- *UNDERWATER VEHICLES
Sonar Target Vehicle Cooling
System Thermodynamic Redesign and
Evaluation.
AD-A028 385
- CONFINED ENVIRONMENTS
UNDERWATER ENVIRONMENT
SIMULATION FEASIBILITY.
AD- 812 815
- *USER MANUALS
Procedure Training Aid for the
SH-3D/H Normal Start Checklist.
AD-A113 171
- *VEHICLES
SIMULATION
COMPUTER ACTIVATED
ELECTROLUMINESCENT DISPLAY SCREEN.
APPLICATION OF LIGHT AND IMAGE
INTENSIFICATION TECHNIQUES, PHASE
I.
AD- 812 278
- SIMULATORS
Study of Advanced Vehicle
Simulation Techniques.
AD- 738 238
- *VERBAL BEHAVIOR
ASSOCIATIVE, CATEGORY, AND SET
FACTORS IN CLUSTERING AMONG WORK
PAIRS AND TRIADS
- AD- 267 860
Assessment of the Need for
Verbal Language Instruction for
Navy Recruits.
AD-A113 375
- CHRONOMETERS
APPARATUS. AN ELECTRONIC
CHRONOGRAPH FOR MEASUREMENT OF
VOICE REACTION-TIME.
AD- 639 379
- STRESS(PSYCHOLOGY)
VOICE COMMUNICATION: EFFECT OF
STRESS CONDITIONS ON SPEAKER
INTELLIGIBILITY.
AD- 638 350
- TIME STUDIES
TIMED PHRASES.
AD- 642 311
- *VERTICAL INDICATORS
SHORT DESCRIPTION OF THE
VERTICAL INDICATING SYSTEMS
AD- 036 713
VERTICAL REFERENCE SYSTEM -
METHOD I.
AD- 073 740
- *VERTICAL TAKEOFF AIRCRAFT
A TRAINING ANALYSIS OF THE
PILOT'S TASK IN TRANSITIONING TO
JET VTOL AIRCRAFT
AD- 231 477
Critical Research Issues and
Visual System Requirements for
V/STOL Training Research Simulator.
AD-A092 561
- AERODYNAMIC CONFIGURATIONS
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME II. V/STOL
ANALYSIS REPORT. STUDY, EQUATIONS
OF MOTION OF VERTICAL/SHORT TAKE-
OFF AND LANDING OPERATIONAL
FLIGHT/WEAPON SYSTEM TRAINERS.
AD- 802 427
- FLIGHT SIMULATORS
STUDY, SURVEY OF HELICOPTER AND

SUBJECT INDEX-108
UNCLASSIFIED FQP40C

UND-VER

UNCLASSIFIED

V/STOL AIRCRAFT SIMULATOR TRAINER
DYNAMIC RESPONSE. VOLUME II.
DYNAMIC RESPONSE CRITERIA FOR
V/STOL AIRCRAFT FLIGHT TRAINERS.
AD- 668 006

MATHEMATICAL MODELS
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME VI. XC-142
ANALOG COMPUTER PROGRAM STUDY: XC-
142A SIMULATION EQUATION
MECHANIZATION.
AD- 667 264

SIMULATION
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME I:
HELICOPTER ANALYSIS REPORT.
AD- 601 022
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME III, PART
I. COMPUTATIONAL METHODS ANALOG.
STUDY, EQUATIONS OF MOTION OF
VERTICAL/SHORT TAKE-OFF AND LANDING
OPERATIONAL FLIGHT/WEAPON SYSTEM
TRAINERS
AD- 607 737

SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME III, PART
II. COMPUTATIONAL METHODS DIGITAL.
STUDY, EQUATIONS OF MOTION OF
VERTICAL/SHORT TAKE-OFF AND LANDING
OPERATIONAL FLIGHT/WEAPON SYSTEM
TRAINERS.
AD- 607 738
SIMULATION OF HELICOPTER AND
V/STOL AIRCRAFT. VOLUME V.
SUMMARY OF FINAL RESULTS.
AD- 615 452

*VERTIGO
VISUAL PERCEPTION
PERCEPTUAL VERTIGO: A
DIMENSIONAL STUDY.
AD- 625 525

*VIDEO TAPE RECORDING
FRAMES(PHOTOGRAPHS)
Stop Frame Investigation Video
Tape Versus Movie Film.
AD-8010 084L

*VIDICONS
RESOLUTION
Systems Analysis of Vidicon
Optics for the Electronic Periscope
View Simulator.
AD- 751 023

*VIEWERS
Evaluation of the Dukane
Cassette/Filmstrip Projection
System Model 28A28A.
AD-8015 707

*VISIBILITY
VISIBILITY ON RADAR SCOPES,
AD- 493 403

CATHODE RAY TUBE SCREENS
VISIBILITY ON CATHODE-RAY TUBE
SCREENS: THE EFFECTS OF LIGHT
ADAPTATION.
AD- 639 390

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: INTENSITY AND COLOR OF
AMBIENT ILLUMINATION,
AD- 639 862

VISIBILITY OF CATHODE-RAY TUBE
SCREENS. THE EFFECT OF SIZE AND
SHAPE OF PIP,
AD- 639 863

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: SIGNALS ON A P-7 SCREEN
EXPOSED FOR DIFFERENT INTERVALS.,
AD- 639 865

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: VIEWING ANGLE,
AD- 640 087

VISIBILITY OF CATHODE-RAY TUBE
SCREENS: SEARCH TIME AS A FUNCTION
OF SIGNAL STRENGTH,
AD- 640 090

VISIBILITY ON CATHODE-RAY TUBE
SCREENS: POSITIVE VS. NEGATIVE
SIGNALS ON AN INTENSITY MODULATED
SCOPE,
AD- 640 092

HIGH ALTITUDE
ESTIMATES OF VISIBILITY FROM
HIGH ALTITUDE AIRCRAFT,
AD- 642 798

*VISION
THE DISCRIMINATION OF VISUAL
NUMBER
AD- 132 905
THE SPEED AND ACCURACY OF
DISCRIMINATING DIFFERENCES IN
NUMBER AND TEXTURE-DENSITY
AD- 140 735
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517
ON THE RELATIVE IMPORTANCE OF
TIME SHARING AT CENTRAL AND
PERIPHERAL LEVELS
AD- 230 998
THE APPLICATION OF POINT SOURCE
PROJECTION TECHNIQUES TO LOW
ALTITUDE-HIGH SPEED NAVIGATION
TRAINING
AD- 235 881
VISUAL PERSISTENCE DECAY CURVES
AS A FUNCTION OF INTENSITY AND
DURATION OF THE STIMULUS
AD- 284 977
PERCEPTION OF DISTORTION. I. AN
EXPERIMENTAL APPROACH TO ILLUSION
AD- 292 120

ADAPTATION(PHYSIOLOGY)
PUPIL SIZE AS DETERMINED BY
ADAPTING LUMINANCE,
AD- 659 691

SPACE PERCEPTION
THE INFLUENCE OF FIGURE-GROUND
RELATIONSHIPS IN BINOCULAR PERCEPTION.
AD- 640 131

TRAINING
Eye Movement Research Program.
Annual Report Number 2. Visual
Training.
AD- 741 248

*VISUAL ACUITY
Color Acuity Vision Testing for
Laser Personnel.
AD-A084 312

AGING(PHYSIOLOGY)
RELATIONSHIPS BETWEEN AGE,

SUBJECT INDEX-107
UNCLASSIFIED FQP40C

VER-VIS

UNCLASSIFIED

VISUAL ACUITY AND COLOR VISION,
AD- 639 867

BRIGHTNESS
EFFECT OF TARGET BRIGHTNESS ON
'NORMAL' AND 'SUBNORMAL' VISUAL
ACUITY,
AD- 640 085

COLORS
On the Number of Absolutely-
Identifiable Spectral Hues.
AD- 764 029

INTERPOLATION
ACCURACY OF VISUAL INTERPOLATION
BETWEEN CIRCULAR SCALE MARKERS AS A
FUNCTION OF THE SEPARATION BETWEEN
MARKERS,
AD- 657 516

MEASUREMENT
Vision Tests Using Laser
Speckle.
AD- 742 792

PERFORMANCE(HUMAN)
THE EFFECTS OF STIMULUS AND
FIELD SIZE ON THE ACCURACY OF
ORIENTATION IN THE HOMOGENEOUS
ENVIRONMENT.
AD- 607 739

TARGET DISCRIMINATION
Relative Effectiveness of Two
and Three Dimensional Image Storage
Media.
AD- 754 743

TRAINING DEVICES
DETECTION IN A HOMOGENOUS VISUAL
FIELD UNDER A CONDITION OF INFINITE
DEPTH OF FOCUS,
AD- 624 531

VISUAL SIGNALS
EMPTY VISUAL FIELD STUDIES:
SOME EFFECTS OF CORRECTIVE LENSES,
FILTERS, AND STRUCTURE,
AD- 445 863

*VISUAL AIDS
Unconventional Visual Displays
for Flight Training.
AD-A111 392
Distribution of Monochrome
Screen Luminance in the CTOL Visual
Technology Research Simulator.
AD-A111 799

*VISUAL PERCEPTION
PROCEEDINGS OF THE ANNUAL NAVAL
TRAINING DEVICE CENTER AND INDUSTRY
CONFERENCE (4TH) HELD AT ORLANDO
FLORIDA, ON 18-20 NOVEMBER 1969.
AD- 707 757
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Technical Journal,
AD- 735 487
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Training Device Center and Industry
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AD- 854 363
Factors Surrounding Motion
Platform - Visual System Coupling
in Flight Simulators.
AD-A006 462
Survey of CIG Data Base
Generation from Imagery.
AD-A091 508
Critical Research Issues and
Visual System Requirements for a
V/STOL Training Research Simulator.
AD-A092 561
Applications of Advanced
Experimental Methods to Visual
Technology Research Simulator
Studies: Supplemental Techniques.
AD-A095 633
Visual Technology Research
Simulator (VTRS) Human Performance
Research: Phase III.
AD-A112 475

ACCURACY
Accuracy of Visual Estimation of
Azimuth Position,
AD- 127 072

BRIGHTNESS
A SCALE OF SUBJECTIVE

SUBJECT INDEX-108
UNCLASSIFIED FQP40C

BRIGHTNESS,
AD- 640 081

DEGRADATION
EMPTY VISUAL FIELD STUDIES:
SOME EFFECTS OF CORRECTIVE LENSES,
FILTERS, AND STRUCTURE,
AD- 445 863

DISPLAY SYSTEMS
SOME PERCEPTUAL PROBLEMS IN THE
DESIGN OF CODED SWITCHING
KEYBOARDS.
AD- 639 854
VISUAL DISPLAY OF COMPLEX
INFORMATION,
AD- 644 706
OBEDIENCE TO ROTATION-INDICATING
VISUAL DISPLAYS AS A FUNCTION OF
CONFIDENCE IN THE DISPLAYS.
AD- 657 472
THE EFFECTS OF SIZE AND
BRIGHTNESS ON THE SPEED OF
IDENTIFYING NUMBER OF RANGE RINGS.
AD- 657 622

GEOMETRIC FORMS
THE VISUAL DISCRIMINATION OF
GEOMETRIC FORMS,
AD- 640 095
SOME EFFECTS OF SHAPE ON
APPARENT BRIGHTNESS,
AD- 640 096
DISCRIMINABILITY BETWEEN
GEOMETRIC FIGURES UNDER COMPLEX
CONDITIONS,
AD- 640 098

HUMAN FACTORS ENGINEERING
Eye Movement Research Program.
Annual Report Number 2. Visual
Training.
AD- 741 246

IDENTIFICATION
RESPONSE AND FEEDBACK TECHNIQUES
FOR AUTOMATED TRAINING OF VISUAL
IDENTIFICATION SKILLS,
AD- 447 882

ILLUSIONS

VIS-VIS

UNCLASSIFIED

PERCEPTION OF DISTORTION: AN
EXPERIMENTAL STUDY OF DISTANCE AND
PERSPECTIVE IN THE AMES TRAPEZOID
ILLUSION.
AD- 607 740
AUTOKINESIS AND FELT EYE
POSITION.
AD- 668 015

NUMBERS
THE EFFECT OF DIFFERENTIAL
REINFORCEMENT ON THE DISCRIMINATION
OF VISUAL NUMBER.
AD- 657 402

PSYCHOPHYSIOLOGY
THE EFFECTS OF INDUCED MUSCLE
TENSION AND AUDITORY STIMULATION ON
TACHISTOSCOPIC PERCEPTION.
AD- 631 840

TARGETS
THE EFFECTS OF STIMULUS AND
FIELD SIZE ON THE ACCURACY OF
ORIENTATION IN THE HOMOGENEOUS
ENVIRONMENT.
AD- 607 739

THEORY
JAMES J. GIBSON ON VISUAL
PERCEPTION: ANALYSIS OF SELECTED
PAPERS.
AD- 602 283

*VISUAL PERCEPTION (*LASERS)
(*GUNNERY TRAINERS
Proceedings of the Naval
Training Device Center and Industry
Conference (5th) Held on 15-17
February 1972.
AD- 737 228

*VISUAL SIGNALS
SENSORY INTERACTION AND RESPONSE
CAPACITY
AD- 225 517

CODING
THE SPEED AND ACCURACY OF
DISCRIMINATING DIFFERENCES IN HUE,
BRILLANCE, AREA, AND SHAPE.

AD- 639 143
THE SPEED AND ACCURACY OF
DISCRIMINATING DIFFERENCES IN
SINGLE AND COMPOUND ASPECTS OF
VISION.
AD- 639 144
TARGET CODING BY MEANS OF VISUAL
FLICKER.
AD- 640 060

PSYCHOLOGICAL TESTS
DISCRIMINATION OF SMALL TIME
INTERVALS BETWEEN A VISUAL AND AN
AUDITORY SIGNAL.
AD- 657 623

*VOCABULARY
ASSOCIATIVE, CATEGORY, AND SET
FACTORS IN CLUSTERING AMONG WORK
PAIRS AND TRIADS
AD- 267 660

*VOCODERS
Use of Computer Speech
Understanding in Training: A
preliminary Investigation of a
Limited Continuous Speech
Recognition Capability.
AD-A049 680

*VOICE COMMUNICATIONS
A FIELD STUDY OF VOICE
COMMUNICATION PROBLEMS AS RELATED
TO TRAINING DEVICES, PROCEDURE AND
EQUIPMENT
AD- 075 348
FUNCTIONAL SPECIFICATIONS FOR A
VOICE COMMUNICATIONS TRAINING
DEVICE.
AD- 095 052
A Method of Developing a Set of
Equated Lists for the Measurement
of Listening Intelligibility.
AD- 127 498
INTELLIGIBILITY OF VOICE
COMMUNICATION (A REVIEW OF PAST AND
PROJECTED RESEARCH, TRAINING
DEVICES AND METHODS)
AD- 143 738
A Survey of Computer Controlled
Audio Response Systems.

SUBJECT INDEX-109
UNCLASSIFIED FQP40C

AD-A950 901

AUDITORY PERCEPTION
INTENSITY MONITORING PERFORMANCE
AS A FUNCTION OF TRAINING.
AD- 639 098

HUMAN FACTORS ENGINEERING
AN INVESTIGATION OF LISTENER
ACCURACY IN AN ENVIRONMENT OF
RELEVANT CONFLICTING VOICE SIGNALS.
AD- 639 104

INTELLIGIBILITY
VOICE COMMUNICATION: EFFECT OF
STRESS CONDITIONS ON SPEAKER
INTELLIGIBILITY.
AD- 638 350
VOICE COMMUNICATION: RETENTION
OF IMPROVED INTELLIGIBILITY, II.
AD- 638 351
SYLLABLE DURATION AND INTENSITY
RELATED TO INTELLIGIBILITY.
AD- 639 084
RELATIONSHIPS BETWEEN VOICE
VARIABLES AND SPEECH
INTELLIGIBILITY IN HIGH LEVEL
NOISE.
AD- 639 095
A FURTHER INVESTIGATION OF THE
RELATIONSHIPS BETWEEN VOICE
VARIABLES AND SPEECH
INTELLIGIBILITY IN HIGH LEVEL
NOISE.
AD- 639 098
A FACTOR ANALYSIS OF TWELVE
PHYSICAL MEASURES OF VOICE.
AD- 639 106
PURDUE SPEECH SOUND TIMER
AD- 657 468

PERFORMANCE(HUMAN)
ITEM ANALYSIS, VCL
INTELLIGIBILITY TEST SERIES.
AD- 847 402
INCREASING ASW HELICOPTER
EFFECTIVENESS THROUGH
COMMUNICATIONS TRAINING.
AD- 882 498

TRAINING

VIS-VOI

UNCLASSIFIED

RETENTION OF VOICE COMMUNICATION
TRAINING AFTER ONE YEAR.

AD- 639 085

THE RETENTION OF IMPROVED
INTELLIGIBILITY IN VOICE
COMMUNICATION.

AD- 647 139

TRAINING DEVICES

PURDUE SPEECH INTENSITY
DEMONSTRATOR.

AD- 638 353

AN EXPERIMENTAL COMPARISON OF 5
CONDITIONS FOR VOICE COMMUNICATION
TRAINING.

AD- 638 355

EVALUATION OF A SIGNAL LEVEL
MONITORING METER AS A COMPONENT IN
A VOICE COMMUNICATION TRAINING
DEVICE.

AD- 639 105

DIRECTIONS FOR INSTALLATION AND
OPERATION OF VOICE COMMUNICATION
TRAINING EQUIPMENT UTILIZING DEVICE
8-I.

AD- 657 465

*WAKE

SIMULATION

STUDY OF WAKE GENERATING SYSTEM
FOR AN ASW TRAINING DEVICE.

AD- 615 907

*WAR GAMES

Theoretical Analysis of the
Proposed Panoramic Moving Target
Screen Simulator.

AD-A043 181

*WARFARE

TRAINING

ELECTRONIC WARFARE TRAINING IN
ANTI-JAMMING TECHNIQUES.

AD- 427 085

*WARNING SYSTEMS

LANDING GEAR

VISUAL REQUIREMENTS FOR A WHEELS-
UP WARNING SIGNAL DEVICE ON
AIRCRAFT.

AD- 642 885

*WATER

RECOVERY

INTERNAL ENVIRONMENTAL SIMULATOR
FOR A MANMACHINE SYSTEM.

AD- 431 026

*WEAPON SYSTEMS

Interservice/Industry Training
Equipment Conference and Exhibition
(3rd), Orlando, Florida, 30
November-2 December 1981.

AD-A109 443

Program Procedures Report A-7E
aircraft Weapon System Trainer
(Flight), Device 2F84B.

AD-A950 828

AIRCRAFT

STUDY, AIRCRAFT WEAPON SYSTEM
TRAINER INSTRUCTOR STATION DISPLAY
AND RECORDING SYSTEMS.

AD- 464 814

SIMULATION

SIMULATOR, WEAPON, FIRING AND
RANGING (LASER) SYSTEM.

AD- 619 164

LASER APPLICATION AVIATION
ORDNANCE STUDY.

AD- 634 917

TRAINING

TASK ANALYSIS METHODS COMPARED
FOR APPLICATION TO TRAINING
EQUIPMENT DEVELOPMENT.

AD- 475 879

TRAINING DEVICES

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME III - SYMBOLS.

AD- 367 646

STUDY, APPLICATION OF DIGITAL
TECHNIQUES FOR WEAPON SYSTEM
TRAINERS. VOLUME IV - INPUT/OUTPUT
REQUIREMENTS.

AD- 367 647

RESEARCH ON CONSIDERATION OF
TRAINING FUNCTIONS DURING DESIGN OF
OPERATIONAL EQUIPMENT.

AD- 825 129

HANDBOOK FOR THE CONSIDERATION
OF TRAINING FUNCTIONS DURING DESIGN
OF OPERATIONAL EQUIPMENT.

AD- 825 828

*WEIGHTLESSNESS

WEIGHTLESSNESS. TRAINING
REQUIREMENTS AND SOLUTIONS

AD- 259 512

*WRITING

Computer Aided Authoring and
Editing.

AD-A096 258

*X RAY PHOTOGRAPHY

STEREOPHOTOGRAPHY
Sequential Stereo Holography
with Application to X-Rays.

AD- 854 598

*ZIRCONIUM

HIGH TEMPERATURE SCALING
BEHAVIOR OF ZIRCONIUM

AD- 068 324

SUBJECT INDEX-110
UNCLASSIFIED FQP40C

WAK-ZIR

PATENTS — IN-HOUSE AND CONTRACTOR

2,301,685	Training Apparatus	Luis de Florez
2,312,962	Training Apparatus for Teaching Radio Navigation	Luis de Florez
2,418,822	Pistol Trainer	Luis de Florez
*2,460,163	Projectile Flight Recording Multiple Exposure Camera	Ira S. Bowen
2,592,552	Electrical Instruction Board	Luis de Florez
*2,655,848	Automatically Controlled Photoelectric Iris	Howard A. Gray, Jr.
2,682,369	Digital Ship Motion Generator	Charles H. Doersam, Jr.
*2,694,869	Gun Sight Trainer	Eugene M. McNutt
*2,700,888	Simulator for Predicting the Behavior of a Roll-Stabilized Vehicle in Flight	Walter A. Good and Norman P. Heydenburg
2,707,212	Means for Automatically Coding and Decoding a Magnetic Tape	John H. Hickey
2,711,594	Pilot Training Device	John H. Hickey
*2,724,305	Apparatus for Recording Eye Movement	Herman F. Brandt
2,736,094	Means for Translating Perspective Views into Plan Views	Sol Domeshek
2,736,230	Photographic Rectifiers	Sol Domeshek

2,742,745	Handle and Guard	Bernard Schreier
*2,764,657	Sine-Cosine Generator	Louis A. Rosenthal
2,770,051	Bank and Turn Indicator	Robert G. Dreves
2,770,103	Portable Cooling Device for Fluids and Food	Harold R. Florea
2,772,651	Instrument Illuminator	Gaetano V. Amico
2,773,419	Low Oblique Rectifying and Ratio Camera	Sol Domeshek
*2,777,214	Radar Tracking Demonstrating and Training Instrument	Henry P. Birmingham
*2,791,764	Analog to Digital Converter	Harry J. Gray, Jr., Puzant V. Levonian and Morris Rubinoff
*2,793,300	Rolling Moment Computer for a Flight Simulator	William E. Nicholson, Frank A. Barnes, Robert L. Divine, Jr., Jacques A. F. Hill and Leon H. Schindel
2,796,001	Variable Magnification Optical Image Transfer Device	George Huether
2,805,066	Target Elevating Mechanism	Thomas Mongello
*2,817,909	Training Device for Operators of Underwater Detection Apparatus	Henry C. Knutson and Byron M. Taylor
2,818,734	Shock Actuated Mechanism	Boyd A. Howe
2,822,724	Projection Meter	Raphael L. Uffner

*2, 825, 058	Target Simulator for Radar System Checking	Earl H. Rix and Leon W. Rustad
*2, 830, 189	Variable Resolution Voltage Controllable Interferometer	Claybourne Mitchell and Richard Blythe
2, 830, 491	Photographic Ortho Projector	Sol Domeshek
2, 836, 904	Radar Fire Control Training System	John H. Hickey
2, 836, 919	Small Weapons Noise Simulator	Edwin R. DuBois
2, 838, 195	Tape Dispenser	Frederick A. Zito
2, 839, 974	Automatic Rectification System	Sol Domeshek
*2, 841, 884	Radar Tracking Demonstrating and Training Instrument	Henry P. Birmingham
2, 841, 888	Slide Rule Demonstrator for Overhead Projector	Paul D. Grimmer
2, 841, 889	Projectable Slide Rule	Thomas C. Coale and Wesley F. Heyman
*2, 842, 868	Front Cockpit Instrument Flying Hood	Robert H. Belter
*2, 847, 970	Transilluminated Dial	Thomas A. Smith
*2, 851, 778	Implements for Graphically Setting Up and Solving Spherical Problems	Frederick A. Ross
*2, 852, 975	Face Type Headrest	Frank E. Radde
2, 856, 701	Radar Target Simulator	Jorma I. Leskinen

2, 858, 698	Pitot Deicer	John H. Hickey
2, 863, 624	Detachable Panel Mount	Harold R. Florea, Edward Baklini and Arthur Braun
2, 864, 177	Relative Motion Intercept Trainer	William M. Shanhouse, Ernest Daher and Robert B. Stopp
*2, 871, 579	Surgical Body-Member Simulacrum for Teaching First Aid	John V. Niiranen and Paul H. Tanner
*2, 876, 562	Electrical Method and Means for Making Relief Maps	Joseph A. Stieber
*2, 878, 588	Air Pressure Demonstrator	Louis P. Gregory
2, 878, 589	Photoelectric Strafing Target	Thomas Mongello
2, 883, 763	Carrier Landing Trainer	Otto F. Schaper
*2, 886, 025	Electropneumatic Subcaliber Mortar Trainer	E. Henry Amistadi
*2, 890, 529	Portable Ditching Trainer	Grosvenor M. Cross and Russell S. Rymer
*2, 891, 230	Quick Disconnect Device for Dial Illuminator	Thomas A. Smith
2, 894, 335	Switching Circuit for a Training Device	Harold R. Florea
2, 902, 673	Selective Signalling Device	Donald G. C. Ware
2, 906, 036	Field Mask for Steroscopic Projection on Monocular Projector	Sol Domeshek

2,909,185	Simulator for Altitude Effects on Pressure Breather	Moses Aronson
*2,913,196	Vertical Take-Off Airplane	Dale W. Cox, Jr.
2,913,714	Quick Disconnect Socket Holder	Matthew J. Partyka
*2,919,065	Integrator	David A. Goldman
*2,919,876	Adjustable Camera Stand	John F. Plain
*2,920,828	Four Quadrant Computer	Billy E. Davis
2,924,026	Optical Radar Simulator	Sol Domeshek
*2,924,401	Strain Gage Operated Wing Servo	William W. Durdning and Wilbur H. Goss
2,930,142	Stereoscopic Range Estimating Training Device	Sol Domeshek
*2,930,145	Parachute Landing Fall Trainer	Howard S. Green
*2,937,585	Device for Measuring the Orientation of a Surface	Yves Nubar and William H. Heath
*2,942,355	Servo Projection System	Harold F. May and Harold L. Shoemaker
*2,943,442	Rocket Thrust Chamber Construction	Edward F. Baehr
*2,945,304	Periosomatic Training Devices	John V. Niiranen and Robert B. Welden
*2,950,471	FM to Binary Code Telemetry Receiver	Conrad H. Hoepfner

*2,952,809	Anti-Leakthrough Phase Comparator	Charles H. Jones
2,954,720	Rangefinder with Adjustable Reticle	Sol Domeshek
2,955,585	Pneumatic Sub-Caliber Mortar Trainer	Irwin Friedland and Cleburne B. Hatfield
*2,957,245	Electronic Reticle Generator	Creighton B. Kimble
2,958,150	Gunfire Simulator Employing Friction Type Detonators	Edwin R. DuBois
2,958,957	Stereo Ranging Attachment for Large Transparency Projector	Sol Domeshek
*2,959,779	Pictorial Display Type Air-Navigation System	William H. Miller and Robert F. Jones
*2,960,915	Scatter Charge	Gaynor O. Rockwell and George M. Gourley
*2,960,923	Aircraft Cabin Air Pressure Equalization System	James T. Winger and Carl E. Hall
*2,961,635	Low-Frequency Underwater Sound Flexure Mode Ring Drive Transducer	Winfield J. Trott
*2,961,648	Rapid Reduction of Telemetric Data	Emory D. Heberling and Jacob M. Sacks
*2,965,979	Training Device for Mark 14 Gunsight	Robert E. Holzer
*2,966,316	Missile	Newton E. Ward and William B. McLean
*2,969,032	Submersible Ground-Effect Machine	Robert W. Pinnes

2,969,179	Intercept Course Calculator	Dominick J. Capuano
*2,971,269	Vectoring Phase Simulator	Russell C. Newhouse
*2,974,019	Apparatus for Obtaining Nitrogen Dioxide from Nitrous Oxide	Alexander P. Sabol
2,976,636	Three-Dimensional Opto-Router	William R. Lange
*2,977,584	Engine Noise Generator	Vernon H. Siegel
2,980,056	Instrument Lighting Device	John H. Achilich
*2,989,747	Energy Decoupling of Closely Spaced Radar Antenna Horns	Fred S. Atchison
*2,991,562	Training Aid System for Wave Detection Equipment	Donald G. C. Hare
*2,991,663	"Z" Axis Drive System	John B. McHugh
*2,994,135	Computer	T. Finley Burke and Sidney Shapiro
*2,995,830	Simulated Missile Homing System	Samuel A. Jordan, Jr. and Elmer D. Robinson
*2,997,255	Microwave Modulating Attenuator Roll Stabilization System	Henry H. George
*2,997,256	Supersonic Aircraft	James H. Walker
*2,997,260	Retractable Hydrofoil Landing Gear for Supersonic Seaplanes	Frederick W. J. Locke, Jr.
*2,998,602	Energy Decoupling of Closely Spaced Radar Antenna Horns	John C. Cacheris
*2,998,944	Delay Mechanism	William Rimmer

3,000,257	Ambient Illumination of Reticle for Rangefinder	Sol Domeshek
*3,000,597	Rocket-Propelled Missile	Alfred J. Bell and Carl W. Besserer
*3,001,299	Helicopter-Dual Tachometer System Training Device	William O. Packer and Charles W. McKee
*3,004,707	Pulse Center Determining System	Robert E. Wilson
*3,005,198	Vector-Phase Radio Direction Finder	Thomas R. O'Meara
3,005,269	Slide Rule Trainer	Francis L. Woolley
*3,006,203	Radar Scanning Nutator	Ben W. Sewell
*3,009,669	Supersonic Airplane Configuration	Frederick W. S. Locke, Jr.
*3,011,738	Autopilot	Harold K. Skramstad, Charles Raudenbush and John A. Hart
*3,016,516	Pulse Code Multiplexing Systems	Charles H. Doersam, Jr.
*3,024,460	Gastube Microwave RF Modulator	Ernest A. Dahl and Thomas I. Humphreys
*3,034,121	Broad Band Spherical Antenna	Henry B. Riblet
*3,034,228	Vectoring Phase Simulator	Paul K. Giloth
*3,034,351	Simulator	Robert B. Johnston, Harold S. Morton and Ludolph F. Welanetz

*3,036,772	Analog-Digital Simulator	Earle W. Pughe, Jr. and Mark E. Connelly
*3,037,298	Wave Action Function Generator	Wilfred G. Sardelli
*3,037,699	Pulsed Analog Computer	Richard C. Lee, Fred B. Cox and Mark E. Connelly
*3,041,541	Clipper Having Independent Controls for Setting Input Clipping Level and Direct Voltage Level of Resulting Output	Raymond Gerr
*3,044,184	Bathymograph Simulator	William Freeman Leuze
*3,045,190	Sound Simulator Utilizing Noise Source	John R. Hilding
*3,048,813	Acoustic Homing Torpedo Scanning System	William Altar and Carl W. Helstrom
3,052,042	Improved Radar Simulation Plate	Allen M. Feder
*3,052,881	Sonar Noise Generator	Richard Windels
*3,064,233	Range Gating Means	Paul C. Gardiner, Lawrence E. Jewett and George Lupton Broome, Jr.
*3,064,234	Sonar System	Robert E. Barrett
*3,065,931	Target-Seeking Guidance System	Edgar O. Dixon and Stephen M. MacNeille
*3,067,527	Relay Servomechanism	John R. Hilding

*3,075,300	Position Indicator and Coincidence Circuit	Harold W. Halvorsen
3,077,040	Methods for Forming a Color Impregnation of Transparent Geometrical Shapes	Joseph A. Stieber and John B. Weldon
*3,077,544	Controlled Transmission Gate Utilizing Conventional and Four-Layer Diodes in Bridge Configuration	Mark E. Connelly
*3,078,456	Split Signal Tracking Circuit	Frederick C. Alpers
*3,078,594	Servo Assist Bungee	John J. White
3,088,225	Subcaliber Howitzer Trainer	E. Henry Amistadi
*3,097,418	Electrically Coded Terrain Model Map	Edward George Valliere
*3,100,353	Globe Support Measuring Device	Wellman Chamberlin
*3,103,702	Map Transparency Curvature Device	Louis D. Tangorra
*3,106,712	Submarine Mounted Antenna Erection Device	Albert K. Daggett
*3,109,046	Window and Passive Interference Generator	Fred H. Numrich
3,111,615	Electric Cam	Otto F. Schaper
*3,113,170	Analog Computing Device	Nils B. Mickelson
*3,117,383	Accelerometer Simulator	Ralph W. Snyder
3,120,843	Monitor for Mechanical Respirator	Abraham Hymon
*3,125,401	Vibra-Pen Scriber Assembly	Stephen E. Boone

*3, 127, 685	Simulated Landing Signal Apparatus	Michael C. Ellison
*3, 130, 253	Target Coordinate Positioner	Melvin H. Damon, Jr.
*3, 131, 248	Amplitude Modulator	David Sigel
*3, 131, 391	Snorkel Simulator	Vance F. Boswell and James C. Shaw
*3, 131, 487	Photographic Mission Simulator	Floyd Lyon and Theodore Aronson
*3, 131, 595	De-Magnifying Optical System for Transparency Projection	Berdj C. Kalustyan
*3, 135, 160	Optical System for Transparency Projection Using Point Light Source and Compound Negative Lenses	Berdj C. Kalustyan
*3, 139, 571	Sine-Cosine Multi-Rotation Servo	Joseph E. Tucker and Edward D. Pinkham
*3, 141, 246	Separable Simulated Round of Ammunition	Andre Boris
3, 146, 665	Multiple Moving Beam Projector	Sol Domeshek, Robert Pomeroy and Adrian Waldorf
*3, 153, 770	Sonar Echo Simulator	Myron L. Feistman, David A. Reinhart and Robert F. Karner
*3, 158, 018	3-D Flight Table	Charles M. Edwards, Murray Kanes, Paul F. Fischer, Franklin O. Geiger, Melvin S. Feder and John R. Farron

*3,158,672	Antenna Beam Width Simulator	George M. Trinite, Jr.
*3,160,415	Strafing Target Using Schlieren Effect	Phillip M. Knapp
*3,161,846	Head Motion Sensing System	Herbert A. Wagner and Stewart C. Brown
3,165,734	Screw Noise Simulation Technique	Samuel Grodzinsky and Myron N. Kaufman
*3,166,718	Pulse Generator Employing Shock-Excited Circuit and First and Second Variable-Bias Means for Stability and Frequency Adjustment	Joseph J. Zyskowski
*3,180,295	Submarine Simulator	Otto Christopher Niederer
*3,183,445	Phase Comparator "AND" Gate	David Sigel
*3,193,606	Simulation of Radar Interference	Warren A. Anderson
3,197,540	Wake Simulator	Myron N. Kaufman and Irwin May
3,197,890	Animated Transparency for Teaching Foreign Languages Demonstrator	Ben Lorenz and James W. Barry
*3,198,993	Coincidence Gate Generator	David Sigel
3,204,342	Polarized and Bi-Refringent Animated Display	Ferdinand R. Romano
*3,205,293	Instructional Device for Simulated Coded Target Identification Signals	Joseph J. Zyskowski

*3,205,303	Remotely Controlled Remote Viewing System	William E. Bradley
*3,208,159	Simulated Radiation Detector	Alexander M. Filipov
*3,217,146	Navigation Coordinate Presentation Computer	Wesley A. Fails
*3,219,744	Radar Signal Interference Trainer	Isidore J. Mazziotti and Seymour Schneider
*3,229,017	Horizontal Situation Display for Radar Scope Interpretation Trainer	Ralph W. Snyder
*3,257,741	Synthetic Gunnery Trainer System	Scott H. Cameron, Eugene F. Uretz, William A. Davidson, Howard T. Betz and Irwin Friedland
*3,261,970	Computing Gyro Simulator	Ralph W. Snyder
3,262,220	Mechanics of Coriolis-Demonstrator	Ben Lorenz, Dalton Shimko and Robert Wyener
*3,263,017	Nike Motion Generator	Melvin H. Damon, Jr.
*3,274,609	Vibra-Pen Scriber Assembly	Stephen E. Boone
3,276,143	Simulated Radiac Trainer	Gerard J. Jaquiss
*3,277,246	Apparatus for Magnetically Recording a Time Division Multiplex Signal	Edmund Russell Altonji

*3,277,411	Minor Deflection Yoke	Robert J. Miller
*3,278,851	Peak Detector for Doublet Storage Pulser	Lawrence Rosenberg and Melvin H. Damon, Jr.
3,286,373	Full Pressure Suit Activation System with Eject Capabilities	Daniel D. Mangieri
*3,290,985	Head Motion Sensing System	William R. Bains, Felix W. A. Knoll and Irving L. Spiro
*3,291,885	Radar Jamming Simulator	William A. Eisele
*3,295,223	Closed Environmental Simulator for Three Men	Jack D. Zeff, Robert A. Bambenek and Cyril M. Tomsic
*3,296,423	Average Bearing Rate Computer and Semi-Automatic Plotter	Gordon E. Ewertz
*3,309,684	Bio-Instrumentation Monitoring and Display Device	Elliott H. Kahn, William M. Nelson and Samuel Stempler
*3,317,648	Transistorized Angle Error Generator	Norman S. Pollack
*3,320,349	Simulated Radar Jammer	Norman S. Pollack and Roland P. Grieshammer
*3,327,042	Target Generator Device	Norman S. Pollack
*3,329,760	Technique for Recording a Narrow Pulse with Variable Delay	Bernard L. Dickens, John Tom and Harold A. Smith

*3,337,420	Kidney Bean Shaped Water Regeneration Compression and Centrifugal Distillation Apparatus	Jack D. Zeff, Robert A. Bambenek and Cyril M. Tomsic
3,341,697	Wake Simulator Utilizing Digital Storage	Myron N. Kaufman, Bernard Grand and Dominick Capuano
3,350,793	Automatic Card Rating and Teaching Machine	Russell S. Bushnell
3,352,556	Trajectory Miss Indicator System	Herbert Chaskin
*3,355,538	Radar Landmass Simulator	David E. Thomas and Robert L. Merten
*3,363,329	Electrical Circuit for a Simulated Radioactive Radiation Detector	Alexander M. Filipov
*3,364,476	Interaction Analyzer	Elliott H. Kahn
*3,367,328	Full Pressure Suit Activation System with Eject Capabilities	Daniel D. Mangieri
*3,369,070	Function Modulator for Simulation Apparatus	Roland E. Nicht
*3,378,939	Regulating Valve for Ejection Seat Trainer	Thomas P. Carey and Theodore T. Hadele
*3,379,283	Bidirectional Rotary Spring Return Mechanism	Robert B. Cole
*3,383,684	Scan Rate Generator for a Land Mass Simulator	Edward E. Gray, Lew A. Raney and Raymond A. Long

*3,388,277	Electroluminescent Device Comprising Electroluminescent Films Emitting Light of Complementary Colors	William A. Thornton, Jr.
*3,394,270	Plural Input Voltage Comparing Signal Generator	Norman S. Pollack
*3,394,273	Transistorized Cutoff Amplifier	Salvatore J. Levanti
*3,396,267	Heat Simulator Computer	Arnold K. Dietrich
*3,405,276	Image Intensifier Comprising Perforated Glass Substrate and Method of Making Same	Zoltan Szepesi
3,413,402	Radar Landmass Simulator	Michael T. Marrero
3,420,953	Apparent Target Motion Control	Hanns H. Wolff
*3,421,045	Pulsed Magnetic Deflection Circuit	Karl B. Kinast
*3,431,459	Spiral Sweep Phase Shift Compensation	John C. Freeborn
*3,435,357	Transistor Amplifier for Photomultiplier Tube Output	Michael Vinet Lamasney
3,436,546	Laser Beam Deflector	George Derderian and Robert J. Klaiber
*3,446,903	Radar Landmass Simulation	Boris Beizer
3,449,719	Cam Controlled Pulse Responsive Receiver	Peter W. Camarata and John W. Wicks
*3,451,000	Transistor Push-Pull Output Circuit	Harry H. Douglass
*3,475,029	Non-Material Aiming Target	Abraham Hyman

*3,478,144	Ocean Current and Wave Generator	Carlton E. Presnell and Guido Z. Zemgals
*3,479,439	Beam Forming Technique and Implementation for Sonar Simulation	Myron N. Kaufman and Melvin Lindner
3,479,454	Electronic Synthesizer	Hanns H. Wolff
*3,484,741	Shock Wave Sensor	Abraham Hyman
3,486,242	Assault Boat Coxswain Trainer	Moses Aronson
3,489,413	Target Scoring System	Morris L. Groder and William J. Porthouse
*3,492,945	Practice Grenade	Ernest A. Filippi
3,496,650	Air Cushion Proprioceptive Motion System	Charles B. Kimball and Christopher A. Magill
*3,496,651	Variable Force Servo-System for Control Loading	Emanuel Briguglio and Richard F. Norris
*3,497,312	Atmosphere Regeneration Method for Closed Environmental Vehicles	Jack D. Zeff, Robert A. Bambenek, and Cyril M. Tomsic
3,497,614	Electronic Vidicon Image Size Control	Edward A. Petrucelli and Joseph R. Owen
3,499,240	Illuminated Grid for Backlighting Plotting Boards	Simeon H. Cotton, Jr. and Bruno A. Cagna
3,507,989	Multiple Observation System	Hanns H. Wolff

3,507,990	Long Range Target	Hanns H. Wolff
3,508,346	Audio Visual Instructional Apparatus	Don A. Norman, Lowell E. Wilkerson and William G. Matheny
3,508,540	Apparatus for Direct Measurement of Skin Conductance	John D. Cavallari, Jr. and John E. Suwara
3,509,332	Analog Four Quadrant Divide Circuit	Bernard J. Newman and Igor V. Golovesenko
*3,514,773	Pulse Storing Systems	Melvin H. Damon, Jr.
*3,515,388	Target Raising Mechanism	August A. Zachmeier
3,517,121	Electronic Periscope Panning Apparatus	Edward A. Petrocelli and Joseph R. Owen
3,517,122	Selective Image Obliteration in Electronic Synthesizers	Joseph R. Owen
3,525,804	Gated Video Display	Joseph R. Owen
*3,525,926	Quiet Attenuator System Utilizing Relay Activated Photo-sensitive Resistors	Frank W. Maczka
3,526,444	Lightweight Stabilized Support for a Holographic System	Joseph T. Carcel and Alfred H. Rodemann
3,531,876	Model Positioning and Support Apparatus	Edwin N. Phillips
*3,532,798	Attenuator	Richard G. Popovici and Lawrence Rosenberg

*3,532,904	Clipping Circuit	Leslie B. Robinson
*3,533,102	Code Generator	John J. Rowe
3,541,850	Moving Cable Tension Measuring Device	John C. McKechnie
*3,542,933	Fresnel Image Generator	Dorsey Davidoff
3,542,934	Submarine Simulator	Joseph S. Warhurst, James A. Carnell, Richard V. Frizell, Peter Schrimmer, Robert D. Saunders and Robert L. Wyener
3,542,948	Panoramic Display System	Hanns H. Wolff
3,542,951	High Resolution Low Distortion Television System	Hanns H. Wolff
*3,543,012	Universal Digital Filter and Function Generator	John E. Courtney
3,559,552	Camera Carriage	Meyer Weitzel
3,560,644	Multiple Projection Television System	Edward A. Petrocelli and Robert G. Palmer
*3,572,916	Sound Synchronization with a Projected Image	John P. Belton, Jr.
*3,573,338	Fresnel Image Computer	Dorsey Davidoff
*3,573,339	Digital Electronic Ground Return Simulator	Robert D. Flower and William A. Hinkle
3,573,582	Large DC Motor Control Circuit	Edward A. Petrocelli

3,573,633	Tone Burst to Frequency Generator	Michael T. Marrero
3,573,792	Universal Display Panel	Donald E. Reed
3,584,397	Ship Piloting Trainer	Albert E. Woodcock
*3,584,945	Infra-Red Generator and Mixer	Jon R. Berry
*3,585,316	Low-Speed High-Frequency Tape Recorder with Reciprocating Head and Medium	K. Karl Kuller
*3,585,632	Control Apparatus	Frederick F. Beck
*3,588,237	Moving Target Simulator	John A. Aldrich
*3,588,662	Pulse Distribution Modifier	Edgar W. Buebel, Jr. and Ronald J. King
3,599,350	Educational Device for Use in Conversion Between Number Systems	Arthur Moskowitz
3,600,510	Close Viewing TV for Simulators	Joseph R. Owen and John J. Kulik
*3,603,726	Electro-Optical Simulator System	Donovan L. Garber, James N. Seidelle and John R. Miles
*3,603,812	Electroluminescent Panel Driver	Wolfgang Merel
*3,604,828	Radar-Jamming Technique	Joseph F. Perkovich
3,604,848	Periscope Breakwater Synthesizer	Carl R. Driskell

3,612,760	Apparatus for Determining Distortion in Television Systems	John C. McKechnie
3,612,761	Large-Area Display System	Hanns H. Wolff
3,612,906	Pulse Synchronizer	Peter D. Kennedy
*3,614,286	Radar Presentation Simulator	George M. Trinite, Jr.
3,621,128	Periscope Stadimeter Simulator with Video Delay	Carl R. Driskell
3,621,131	Visual Environment Simulator	Hanns H. Wolff
3,624,285	High-Resolution Television System	Hanns H. Wolff
*3,624,401	Ultraviolet Target Hit Scoring System	Milton Stoller
3,624,925	Periscope Breakwater Simulator	John W. Herndon
*3,629,653	Crossed Grid EL Display Driver	Irwin Munt
3,641,260	Electronic Raster Rotation System for Television	John W. Herndon
3,641,485	Echo Simulation Means	Francis J. Murphree and Michael T. Marrero
3,642,999	Simulator for Continuous Frequency Modulated Sonar	Francis J. Murphree
*3,644,073	Method of Smoke Reduction and Apparatus Therefor	Alexander Goldsmith
*3,649,735	Transmission System	William Knowlton Coburn and Richard E. Hillger
3,657,826	Semiconductor Laser Marksmanship Training Device	Albert H. Marshall and George A. Siragusa

3,658,410	Wide Angle Anamorphic Refractive Lenses	Ronald R. Willey
3,659,142	Annular Scansion Circuit for Closed Circuit Television Systems	Edwin N. Phillips
3,660,843	Recovery System	Hanns H. Wolff
3,662,102	Bi-Directional Television Scan System	John W. Herndon
3,666,895	Film Recorded Velocity and Dynamic Gain Control Mechanism	John C. McKechnie
3,671,391	Periscope Stadimeter Simulator with Camera Sweep Delay	Carl R. Driskell
3,671,657	Echo Synthesizing Apparatus	Francis J. Murphree
3,675,012	Cinefluorographic Holography	George Derderian and Joseph L. DeClerk
3,675,342	Fire Fighting Trainer	Hanns H. Wolff
3,675,343	Fire Fighting and Control Simulator	Edmund Swiatosz and Walter S. Chambers
3,676,802	Submarine Propeller Cavitation Noise Simulator	Francis J. Murphree and Paul S. Catano
3,681,608	Laser Beam Receiver Having a High Signal to Noise Ratio	George Derderian and Denis R. Breglia
3,692,934	Roll and Pitch Simulator Utilizing 360° Display	John W. Herndon
*3,695,246	Pneumatic Machine Gun with Photo Cell Interrupted Circuit	Ernest A. Filippi, Jack B. Watson and Larry E. Hughes

3,698,102	Submerged Periscope Simulator	Carl R. Driskell
3,699,248	Automatic Area of Interest Television Optical Probe Focus Apparatus	John C. McKechnie
3,699,251	Automatic Optical Probe Focus Apparatus	John C. McKechnie
3,699,669	Radar Landmass Simulator	Hanns H. Wolff
3,700,302	Vacuum Film Holder for Holograms	Windell N. Mohon and Alfred H. Rodemann
*3,701,954	Adjustable Pulse Train Generator	Albert F. Seminatore and Steven R. Bryan
3,702,395	Condenser System for High Intensity Light Source	Gottfried R. Rosendahl
3,713,000	Sweep Generator with Automatic Centering	Carl R. Driskell and Joseph R. Owen
3,713,081	Generation of Dopplerized, Aspect Dependent, Highlighted Simulated Echoes	Francis J. Murphree
3,720,007	Visual Display Simulator	John C. McKechnie and Paul D. Grimmer
3,724,933	Laser Speckle Visual Tester	Windell N. Mohon and Alfred H. Rodemann
3,725,855	System for Determining Direction of Arrival of Signals	Francis J. Murphree, Peter D. Kennedy and Richard B. Webster
3,731,743	Fire Control Apparatus Air Pollution Product Abatement	Albert H. Marshall

*3,733,073	Torsion Bar for Raising and Lowering a Target	Keith Gutler
3,739,370	Plotting Projector	Hanns H. Wolff
3,740,469	Reflective Panoramic T.V. Projection System	John W. Herndon
3,742,618	Forward Observer Trainer	Robert J. Entwistle
3,746,782	Shrunken Raster with Image Insetting	Carl R. Driskell
3,748,374	Multi-Color Periscope View Simulator	William J. Curran John J. Kulik
3,758,714	Multiple Gun Rotatable Television Projector Head for 360° Display	John W. Herndon
3,748,751	Laser Machine Gun Simulator	Denis R. Breglia Alfred H. Rodemann Windell N. Mohon
3,761,156	Holographic Colored Light Pattern Simulation	Windell N. Mohon Alfred H. Rodemann George Derderian
*3,764,720	Speed and Bearing Integrator	Robert F. Peterson
3,769,458	Color Electronic Synthesizer	Carl R. Driskell
3,770,884	Luminance Control Circuit for Multi-Color Periscope View Simulator	William J. Curran John J. Kulik
3,770,885	Color Electronic Periscope View Simulator	William J. Curran John J. Kulik
3,787,619	Wide Angle Display System	Hanns H. Wolff

3,788,733	Laser Direct Fire Simulator Employing Refractive Media	Denis R. Breglia Windell N. Mohon Joseph F. Mulson
3,789,128	Multipath Sonar Simulator	Francis J. Murphree
3,789,305	Tone Burst to Frequency Converter	Michael T. Marrero
3,792,535	Laser Rifle Simulator System	Albert H. Marshall George A. Siragusa
3,794,818	Automatic Memory Test and Correction System	Peter D. Kennedy
3,797,907	Fresnel Lens Scatter Plate for Data Reduction Holography	Emmett N. Leith
3,804,977	Colored Running Light Simulator	Carl R. Driskell
3,808,413	Polar Resolver	Urbano Manfredi
3,811,010	Intrusion Detection Apparatus	David T. Long
3,811,204	Programmable Laser Marksmanship Trainer	Albert H. Marshall George A. Siragusa
3,813,795	Laser Device for Moving Target Marksmanship Training	Albert H. Marshall George A. Siragusa
3,829,596	Sonar Reverberation Simulator	Francis J. Murphree
3,835,234	Sonar Echo Simulator	Francis J. Murphree
3,845,395	Harmonic Series Synthesizer	Francis J. Murphree
3,854,225	Rotating Tank Demonstrator	Robert L. Wyener
3,862,358	Visual Simulation System	Hanns H. Wolff

3,872,238	360° Panoramic Television System	John W. Herndon
3,880,509	Wide-Angle On-Axis Projection System	John W. Herndon
3,889,396	Direct Fire Weapons Simulator	Moses Aronson
*3,894,248	Relator Simulator System	Robert R. Fontaine
*3,895,183	Waterborne Vehicle Trainer Visual System	Albert F. Collier
3,895,861	Rear-Screen Wide-Angle On-Axis Projection System	John W. Herndon
*3,898,662	Radar Target Simulator Using no Electrical Connection to Radar	William R. Hom Frederick J. Jaklitsch Raymond H. Bennighof
3,898,747	Laser System for Weapon Fire Simulation	Albert H. Marshall
3,904,995	Ultra High Frequency Impedance Adjustment Means	Edwin N. Phillips
3,905,132	Hidden Knowledge Detector	Frederick N. Dyer
3,911,598	Laser Type Weapon Fire Simulation System	Windell N. Mohon
3,916,536	Direct Fire Weapon Simulator System	Windell N. Mohon Denis R. Breglia Alfred H. Rodemann
**3,924,130	Body Exposure Indicator	Allen Cohen Hugo Caligiuri
3,936,871	Multi-Wavelength Display System	Windell N. Mohon
*3,936,954	Electronic Bearing Selector for Omni-Directional Signals	Warren A. Anderson Lawrence Rosenberg Melvin H. Damon, Jr.

*3,936,958	Sonar Reverberation Simulation	Arthur B. Clapsaddle
3,945,133	Weapons Training Simulator Utilizing Polarized Light	Windell N. Mohon George Derderian Denis R. Breglia
3,949,490	Simulator Including Improved Holographic Heads Up Display System	George Derderian Windell N. Mohon
3,950,612	Synthetic Motion Generator	Joseph R. Owen Carl R. Driskell
3,958,860	Holographic Object Recognition Trainer	Denis R. Breglia Alfred H. Rodemann
3,958,871	Composite Polarized Film for Use in a Weapon Training Simulator	Gottfried R. Rosendahl Windell N. Mohon
3,964,178	Universal Infantry Weapons Trainer	Albert H. Marshall Frank J. Oharek John H. Dillard Robert J. Entwistle
3,911,590	Laser Type Weapon Fire Simulation System	Windell N. Mohon
3,991,486	Aircraft Landing Signal Officer Trainer	George Derderian Alfred H. Rodemann Windell N. Mohon John W. Pease
3,992,718	Color Panoramic Laser Projector	Carl R. Driskell
3,998,532	Wide Angle Single Channel Projection Apparatus	Wiley V. Dykes

4,012,126	Optical System for 360° Annular Image Transfer	Gottfried R. Rosendahl Wiley V. Dykes
4,019,262	Direct Fire Weapon Trainer Incorporating Hit and Data Delay Responses	Denis R. Breglia Alfred H. Rodemann David T. Long
4,050,166	Recoil Simulator	Edmund Swiatosz Albert H. Marshall
4,072,395	Microscope	Windell N. Mohon
**D-10 Issued 6/18/71	Self-Destroying Location Marking Means	Hanns H. Wolff
4,077,721	Apparatus for Measuring Holographic Lens Aberration Parameters	Windell N. Mohon
4,083,255	Hydro-Optic Vibration Detector	John C. McKechnie
4,099,183	Self-Destroying Location Marking Means	Hanns H. Wolff
4,100,571	360° Non-Programmed Visual System	Wiley V. Dykes Frank J. Oharek

*Patents issued for inventions which resulted from NAVTRAEQUIPCEN contracts.

**Notice of allowability for classified application.

4,103,435	Head Trackable Wide Angle Visual System	John W. Herndon
4,110,791	Television Projector System	Gottfried R. Rosendahl
4,139,258	Laser Scan Converter	Frank J. Oharek
4,150,885	Stabilized Scene Viewing System	Denis R. Breglia Robert J. Entwistle Frank J. Oharek Gottfried R. Rosendahl
4,151,411	Laser Safety Goggles	George Derderian Windell N. Mohon
4,153,915	Optical Image Modifier for Distortion or Other Compensation	John C. McKechnie
4,158,258	Elevation Sampling Terrain Probe	John C. McKechnie
*4,159,478	Radar ECM Simulator Using No Electrical Connection to Radar	Frederick J. Jaklitsch Joseph R. Weger
4,160,903	Electro-Optical Radio System	John C. McKechnie Herbert Berke
4,164,081	Remote Target Hit Monitoring System	Herbert Berke
4,171,910	Retroreflectance Measurement System	George Derderian Denis R. Breglia

4,177,580	Laser Marksmanship Target	Albert H. Marshall George A. Siragusa
4,179,919	Terrain Contour Tracking System	John C. McKechnie
4,196,473	Remote Position Plotter	Francisco Chea
4,197,509	Variable Segmented Ramp Voltage Synthesizer	William J. Curran John J. Kulik
4,206,633	Surface Profile Follower and Indicator System	John C. McKechnie Paul D. Grimmer
4,207,688	Pilot Training Simulator	George Derderian Windell N. Mohon Eugene D. Maldonato Alfred H. Rodemann
4,208,107	Drugless Eye Examination System	Frank J. Oharek
4,223,454	Marksmanship Training System	Windell N. Mohon Frank J. Oharek Robert J. Entwistle David T. Long John C. McKechnie Don D. Doty
4,227,401	Surface Elevation Measuring Apparatus	John C. McKechnie

4,240,212	Thermal Signature Targets	Albert H. Marshall Bon F. Shaw George A. Siragusa Herbert C. Towle
4,244,120	Acceleration Cueing Simulation Device	William T. Harris
4,251,931	Terrain Vehicle Simulator Contour Measuring and Storage Device	John C. McKechnie
4,253,515	Integrated Circuit Temperature Gradient and Moisture Regulator	Edmund Swiatosz
4,263,621	Charge Coupled Device Signal Output Summing Circuit	Herbert Berke
4,265,238	Simulated Oxygen Breathing Apparatus	Edmund Swiatosz Wiley V. Dykes Paul D. Grimmer Bruce V. Lane
4,279,292	Charge Coupled Device Temperature Gradient and Moisture Regulator	Edmund Swiatosz
4,279,599	Thermal Target and Weapon Fire Simulator for Thermal Sights	Albert H. Marshall George Derderian
4,281,361	Simulated Multilayer Circuit Board	Benjamin W. Patz Herbert Berke Donald R. Meadorf
4,281,993	Semiconductor Laser Alignment Device	Bon F. Shaw

4,284,906	Constant Amplitude Variable Frequency Synchronized Linear Ramp Generator	Urbano Manfredi
4,290,757	Burst on Target Simulation Device for Training With Rockets	Albert H. Marshall Herbert C. Towle
4,299,579	Deep Fat Fryer Fire Fighting Simulator and Method	Edmund Swiatosz Bruce V. Lane
4,302,190	Rifle Recoil Simulator	Bon F. Shaw Albert H. Marshall
4,303,394	Computer Generated Image Simulator	Herbert Berke John H. Allen Joseph R. Owen
4,303,396	Fire Fighting Training Device and Method	Edmund Swiatosz
4,303,397	Smoke Generating Apparatus	Edmund Swiatosz
4,303,868	Sawtooth Waveform Generating Circuit for Utilization in a Helmet Mounted Display	Herbert Berke John H. Allen Joseph R. Owen
4,303,938	Pattern Generator for Simulating Image Generation	Herbert Berke John H. Allen
4,317,610	Holographic Terrain Surface Display System	Denis Breglia Alfred H. Rodeman
4,317,651	Weapons Training Apparatus for Simulating Long Range Weapons	Albert H. Marshall Gary M. Bond Bon F. Shaw

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4,317,652	Marksmanship Training Device for Simulating Long Range Weapons	Albert H. Marshall Gary M. Bond Bon F. Shaw
4,321,043	Recoil Force and Weight Loss Simulation Device	Paul D. Grimmer Edmund Swiatosz
4,326,119	Portable Battery Operated Electric Smoke Generator	Edmund Swiatosz
4,336,018	Electro-Optic Infantry Weapons Trainer	Albert H. Marshall Bon F. Shaw Herbert C. Towle Thomas J. Riordan George A. Siragusa
4,336,976	Holographic Storage of Terrain Data	Alfred H. Rodemann Denis R. Breglia
4,340,370	Linear Motion and Pop-Up Target System	Albert H. Marshall Bon F. Shaw Paul D. Grimmer Herbert C. Towle Gary M. Bond
4,341,986	Servo Control System for the Positioning of an Apparatus	George B. Browder
4,342,984	High Speed Digital to Analog Converter Circuit	Herbert Berke John H. Allen